

365033,390048,

Order Details

Date: 24/04/2023
Your ref: K18_Warrington_PO_WE-1946
Our Ref: GS-RGO-27J-2BH-VGA

Site Details

Location: 365031 390042
Area: 0.43 ha
Authority: [Warrington Borough Council](#) ↗



[Summary of findings](#)

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[Aerial image](#)

[p. 8 >](#)

[OS MasterMap site plan](#)

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Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	2	0	5	5	-
15 >	1.2 >	Historical tanks >	0	0	1	2	-
16 >	1.3 >	Historical energy features >	0	0	5	4	-
16 >	1.4 >	Historical petrol stations >	0	0	0	0	-
17 >	1.5 >	Historical garages >	0	0	0	0	-
17 >	1.6 >	Historical military land >	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	Historical industrial land uses >	3	0	6	6	-
19 >	2.2 >	Historical tanks >	0	0	1	2	-
20 >	2.3 >	Historical energy features >	0	0	5	5	-
20 >	2.4 >	Historical petrol stations >	0	0	0	0	-
20 >	2.5 >	Historical garages >	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
22 >	3.1 >	Active or recent landfill >	0	0	0	0	-
22 >	3.2 >	Historical landfill (BGS records) >	0	0	0	0	-
23 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	0	-
23 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	0	-
23 >	3.5 >	Historical waste sites >	0	0	0	0	-
23 >	3.6 >	Licensed waste sites >	0	0	0	2	-
24 >	3.7 >	Waste exemptions >	0	0	13	30	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
29 >	4.1 >	Recent industrial land uses >	2	4	24	-	-
31 >	4.2 >	Current or recent petrol stations >	0	0	0	0	-
31 >	4.3 >	Electricity cables >	0	0	0	0	-
32 >	4.4 >	Gas pipelines >	0	0	0	0	-
32 >	4.5 >	Sites determined as Contaminated Land >	0	0	0	0	-



32	>	4.6	>	Control of Major Accident Hazards (COMAH)	>	0	0	0	0	-
32	>	4.7	>	Regulated explosive sites	>	0	0	0	0	-
32	>	4.8	>	Hazardous substance storage/usage	>	0	0	0	0	-
33	>	4.9	>	Historical licensed industrial activities (IPC)	>	0	0	0	0	-
33	>	4.10	>	Licensed industrial activities (Part A(1))	>	0	0	21	0	-
36	>	4.11	>	Licensed pollutant release (Part A(2)/B)	>	0	0	1	1	-
36	>	4.12	>	Radioactive Substance Authorisations	>	0	0	0	0	-
37	>	4.13	>	Licensed Discharges to controlled waters	>	0	0	0	0	-
37	>	4.14	>	Pollutant release to surface waters (Red List)	>	0	0	0	0	-
37	>	4.15	>	Pollutant release to public sewer	>	0	0	0	0	-
37	>	4.16	>	List 1 Dangerous Substances	>	0	0	0	0	-
37	>	4.17	>	List 2 Dangerous Substances	>	0	0	0	0	-
38	>	4.18	>	Pollution Incidents (EA/NRW)	>	0	0	0	0	-
38	>	4.19	>	Pollution inventory substances	>	0	0	0	0	-
38	>	4.20	>	Pollution inventory waste transfers	>	0	0	0	0	-
38	>	4.21	>	Pollution inventory radioactive waste	>	0	0	0	0	-
Page	Section	Hydrogeology			On site	0-50m	50-250m	250-500m	500-2000m	
39	>	5.1	>	Superficial aquifer	Identified (within 500m)					
41	>	5.2	>	Bedrock aquifer	Identified (within 500m)					
43	>	5.3	>	Groundwater vulnerability	Identified (within 50m)					
45	>	5.4	>	Groundwater vulnerability- soluble rock risk	None (within 0m)					
45	>	5.5	>	Groundwater vulnerability- local information	None (within 0m)					
46	>	5.6	>	Groundwater abstractions	0	0	1	0	9	
49	>	5.7	>	Surface water abstractions	0	0	0	0	3	
50	>	5.8	>	Potable abstractions	0	0	0	0	0	
50	>	5.9	>	Source Protection Zones	1	0	0	0	-	
51	>	5.10	>	Source Protection Zones (confined aquifer)	0	0	0	0	-	
Page	Section	Hydrology			On site	0-50m	50-250m	250-500m	500-2000m	
52	>	6.1	>	Water Network (OS MasterMap)	0	0	0	-	-	



52 >	6.2 >	Surface water features >	0	0	0	-	-
53 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
53 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
53 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
55 >	7.1 >	Risk of flooding from rivers and the sea >	None (within 50m)				
55 >	7.2 >	Historical Flood Events >	0	0	0	-	-
55 >	7.3 >	Flood Defences >	0	0	0	-	-
56 >	7.4 >	Areas Benefiting from Flood Defences >	0	0	0	-	-
56 >	7.5 >	Flood Storage Areas >	0	0	0	-	-
57 >	7.6 >	Flood Zone 2 >	None (within 50m)				
57 >	7.7 >	Flood Zone 3 >	None (within 50m)				
Page	Section	Surface water flooding >					
58 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
60 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
61 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	4
62 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	0
62 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
62 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	0
63 >	10.5 >	National Nature Reserves (NNR) >	0	0	0	0	0
63 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
63 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	0
63 >	10.8 >	Biosphere Reserves >	0	0	0	0	0
64 >	10.9 >	Forest Parks >	0	0	0	0	0
64 >	10.10 >	Marine Conservation Zones >	0	0	0	0	0
64 >	10.11 >	Green Belt >	0	0	0	1	0
64 >	10.12 >	Proposed Ramsar sites >	0	0	0	0	0



65 >	10.13 >	Possible Special Areas of Conservation (pSAC) >	0	0	0	0	0
65 >	10.14 >	Potential Special Protection Areas (pSPA) >	0	0	0	0	0
65 >	10.15 >	Nitrate Sensitive Areas >	0	0	0	0	0
65 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	0
66 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
67 >	10.18 >	SSSI Units >	0	0	0	0	5
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	11.1 >	World Heritage Sites >	0	0	0	-	-
70 >	11.2 >	Area of Outstanding Natural Beauty >	0	0	0	-	-
70 >	11.3 >	National Parks >	0	0	0	-	-
70 >	11.4 >	Listed Buildings >	0	0	0	-	-
71 >	11.5 >	Conservation Areas >	0	0	0	-	-
71 >	11.6 >	Scheduled Ancient Monuments >	0	0	0	-	-
71 >	11.7 >	Registered Parks and Gardens >	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
72 >	12.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
73 >	12.2 >	Open Access Land >	0	0	0	-	-
73 >	12.3 >	Tree Felling Licences >	0	0	4	-	-
74 >	12.4 >	Environmental Stewardship Schemes >	0	0	0	-	-
74 >	12.5 >	Countryside Stewardship Schemes >	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	13.1 >	Priority Habitat Inventory >	0	0	1	-	-
76 >	13.2 >	Habitat Networks >	0	0	0	-	-
76 >	13.3 >	Open Mosaic Habitat >	0	0	0	-	-
76 >	13.4 >	Limestone Pavement Orders >	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	14.1 >	10k Availability >	Identified (within 500m)				
79 >	14.2 >	Artificial and made ground (10k) >	1	0	1	0	-
80 >	14.3 >	Superficial geology (10k) >	2	1	3	3	-

81 >	14.4 >	Landslip (10k) >	0	0	0	0	-
82 >	14.5 >	Bedrock geology (10k) >	2	1	0	0	-
83 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
84 >	15.1 >	50k Availability >	Identified (within 500m)				
85 >	15.2 >	Artificial and made ground (50k) >	0	0	0	0	-
85 >	15.3 >	Artificial ground permeability (50k) >	0	0	-	-	-
86 >	15.4 >	Superficial geology (50k) >	2	0	1	2	-
87 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
87 >	15.6 >	Landslip (50k) >	0	0	0	0	-
87 >	15.7 >	Landslip permeability (50k) >	None (within 50m)				
88 >	15.8 >	Bedrock geology (50k) >	1	0	0	0	-
89 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
89 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
90 >	16.1 >	BGS Boreholes >	3	7	116	-	-
Page	Section	Natural ground subsidence >					
97 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
98 >	17.2 >	Running sands >	Very low (within 50m)				
100 >	17.3 >	Compressible deposits >	High (within 50m)				
102 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
104 >	17.5 >	Landslides >	Very low (within 50m)				
106 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities >	On site	0-50m	50-250m	250-500m	500-2000m
108 >	18.1 >	Natural cavities >	0	0	0	0	-
108 >	18.2 >	BritPits >	0	0	0	0	-
108 >	18.3 >	Surface ground workings >	0	0	0	-	-
108 >	18.4 >	Underground workings >	0	0	0	0	0
109 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	0	-



109 >	18.6 >	Non-coal mining >	0	0	0	0	0
109 >	18.7 >	Mining cavities >	0	0	0	0	0
109 >	18.8 >	JPB mining areas >	None (within 0m)				
109 >	18.9 >	Coal mining >	Identified (within 0m)				
110 >	18.10 >	Brine areas >	None (within 0m)				
110 >	18.11 >	Gypsum areas >	None (within 0m)				
110 >	18.12 >	Tin mining >	None (within 0m)				
110 >	18.13 >	Clay mining >	None (within 0m)				

Page	Section	Radon >					
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111 >	19.1 >	Radon >	Less than 1% (within 0m)				
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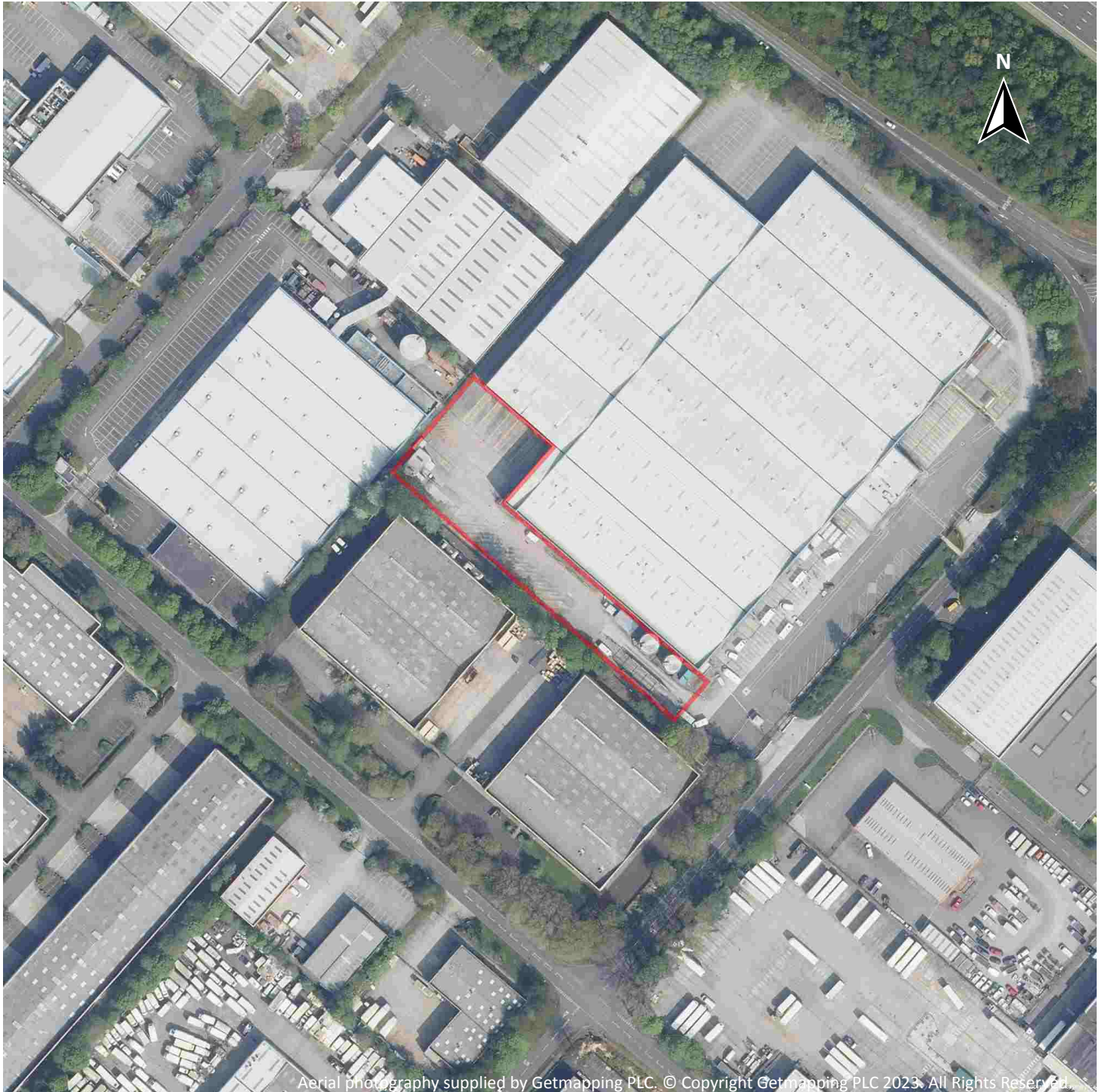
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
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113 >	20.1 >	BGS Estimated Background Soil Chemistry >	7	2	-	-	-
114 >	20.2 >	BGS Estimated Urban Soil Chemistry >	0	0	-	-	-
114 >	20.3 >	BGS Measured Urban Soil Chemistry >	0	0	-	-	-

Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
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115 >	21.1 >	Underground railways (London) >	0	0	0	-	-
115 >	21.2 >	Underground railways (Non-London) >	0	0	0	-	-
115 >	21.3 >	Railway tunnels >	0	0	0	-	-
115 >	21.4 >	Historical railway and tunnel features >	0	0	0	-	-
115 >	21.5 >	Royal Mail tunnels >	0	0	0	-	-
116 >	21.6 >	Historical railways >	0	0	0	-	-
116 >	21.7 >	Railways >	0	0	0	-	-
116 >	21.8 >	Crossrail 1 >	0	0	0	0	-
116 >	21.9 >	Crossrail 2 >	0	0	0	0	-
116 >	21.10 >	HS2 >	0	0	0	0	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 0.43ha



Recent site history - 2016 aerial photograph



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Capture Date: 21/04/2016

Site Area: 0.43ha



Recent site history - 2015 aerial photograph

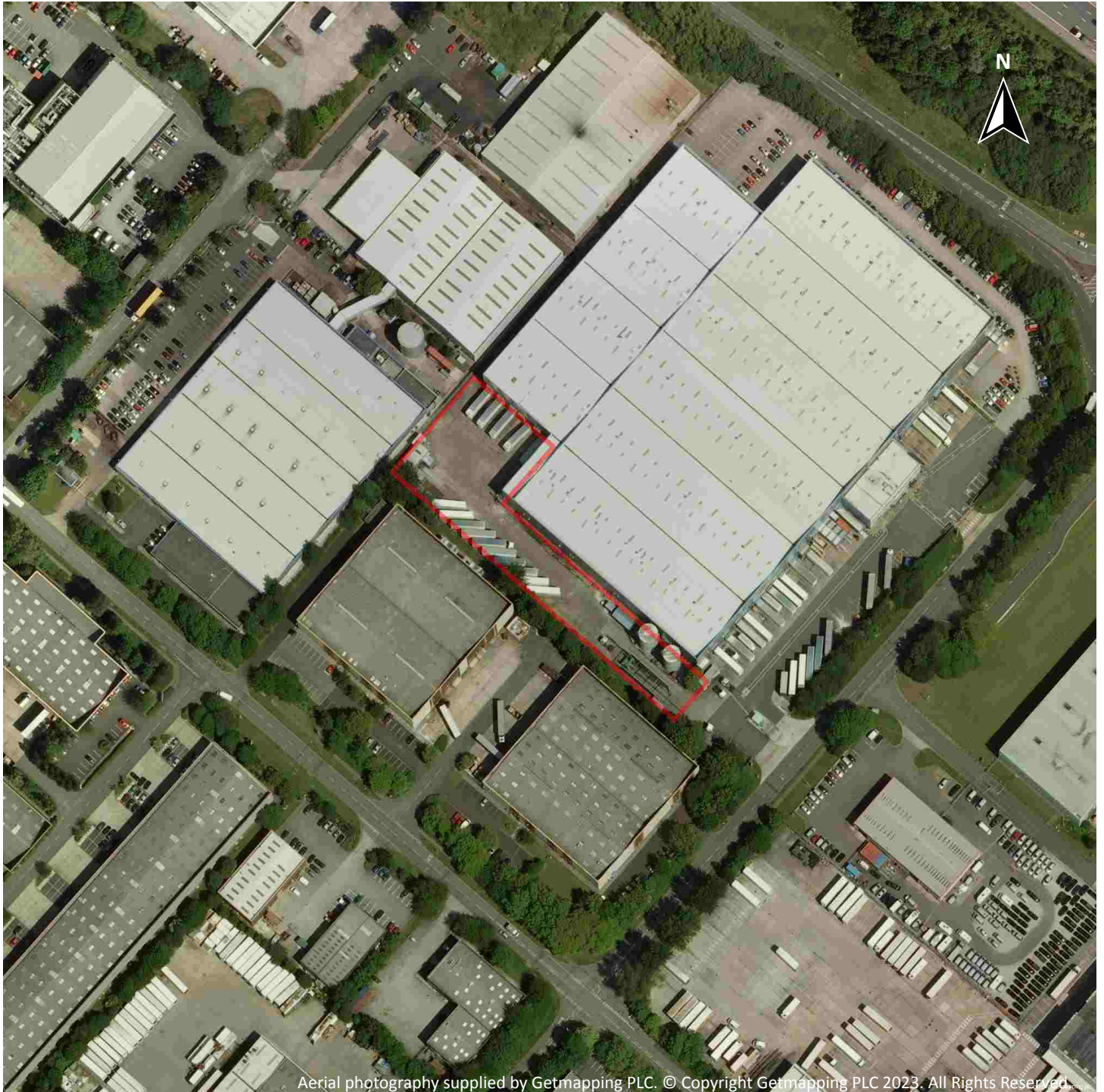


Capture Date: 11/06/2015

Site Area: 0.43ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.43ha



Recent site history - 2000 aerial photograph



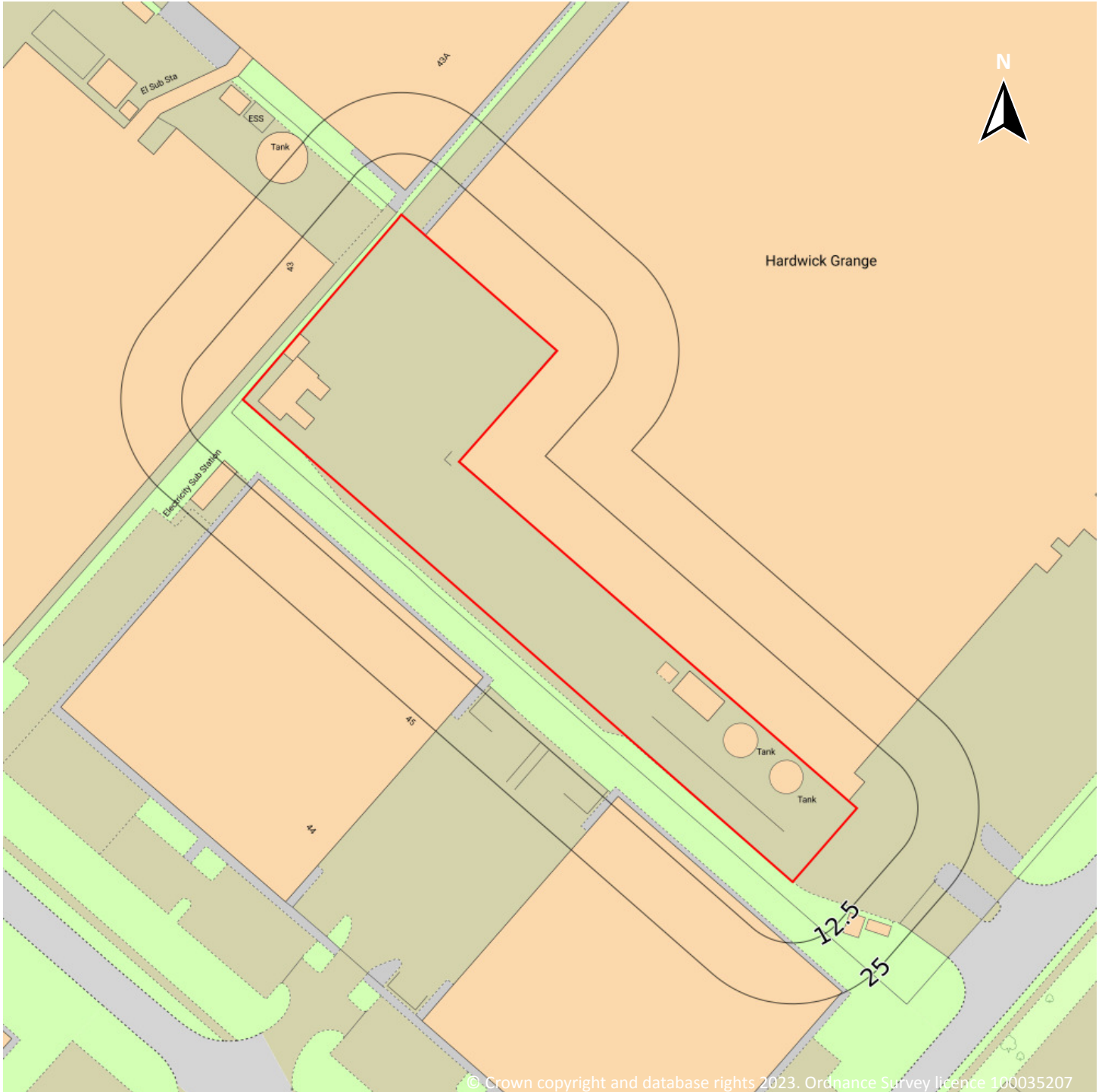
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Capture Date: 04/09/2000

Site Area: 0.43ha



OS MasterMap site plan



Site Area: 0.43ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m **12**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Nursery	1968	831827



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Works	1985 - 1987	949058
2	107m W	Unspecified Works	1987 - 1992	923956
4	131m NW	Unspecified Warehouse	1987	807167
5	147m NW	Unspecified Works	1987	830358
7	202m SE	Unspecified Warehouse	1982	807166
8	236m NW	Unspecified Warehouse	1987	807165
11	336m SE	Unspecified Warehouse	1982	807182
12	336m W	Unspecified Depot	1987	818347
13	339m S	Unspecified Heap	1987 - 1992	990313
15	435m NW	Unspecified Works	1987	830356
16	451m NW	Unspecified Warehouse	1987	807168

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

3

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	68m NW	Unspecified Tank	1983	113896
9	295m SE	Unspecified Tank	1980	113897
10	308m NW	Unspecified Tank	1983	113895

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

9

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	51m NW	Electricity Substation	1983	61978
3	127m W	Electricity Substation	1983	61972
6	180m S	Electricity Substation	1980	61950
B	212m W	Electricity Substation	1983	61973
B	249m W	Electricity Substation	1983	61977
14	397m S	Electricity Substation	1980	61948
17	466m SE	Electricity Substation	1980	61949
18	467m SW	Electricity Substation	1973 - 1983	68968
19	468m W	Electricity Substation	1983	61979

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

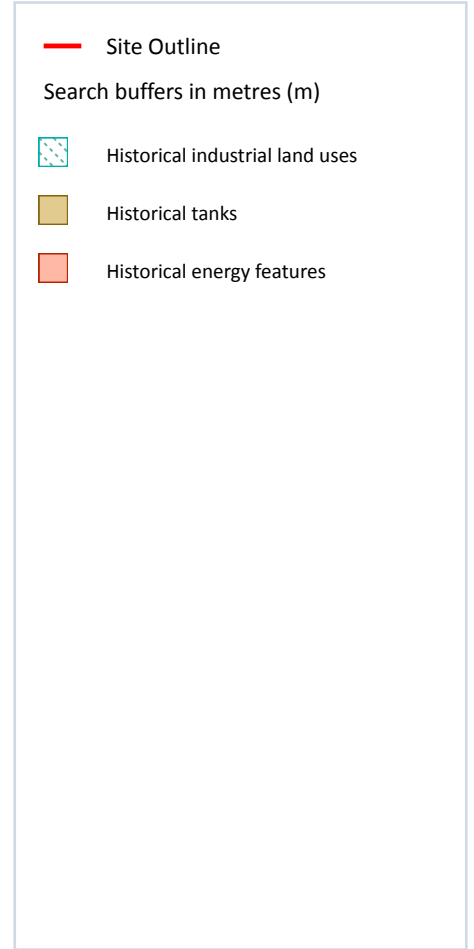
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

15

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 18](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Nursery	1968	831827
A	On site	Unspecified Works	1985	949058
A	On site	Unspecified Works	1987	949058

ID	Location	Land Use	Date	Group ID
B	107m W	Unspecified Works	1992	923956
B	107m W	Unspecified Works	1987	923956
3	131m NW	Unspecified Warehouse	1987	807167
4	147m NW	Unspecified Works	1987	830358
6	202m SE	Unspecified Warehouse	1982	807166
7	236m NW	Unspecified Warehouse	1987	807165
10	336m SE	Unspecified Warehouse	1982	807182
11	336m W	Unspecified Depot	1987	818347
D	339m S	Unspecified Heap	1992	990313
D	339m S	Unspecified Heap	1987	990313
13	435m NW	Unspecified Works	1987	830356
14	451m NW	Unspecified Warehouse	1987	807168

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

3

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 18](#) >

ID	Location	Land Use	Date	Group ID
A	68m NW	Unspecified Tank	1983	113896
8	295m SE	Unspecified Tank	1980	113897
9	308m NW	Unspecified Tank	1983	113895

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

10

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 18 >](#)

ID	Location	Land Use	Date	Group ID
A	51m NW	Electricity Substation	1983	61978
2	127m W	Electricity Substation	1983	61972
5	180m S	Electricity Substation	1980	61950
C	212m W	Electricity Substation	1983	61973
C	249m W	Electricity Substation	1983	61977
12	397m S	Electricity Substation	1980	61948
15	466m SE	Electricity Substation	1980	61949
E	467m SW	Electricity Substation	1973	68968
E	467m SW	Electricity Substation	1983	68968
16	468m W	Electricity Substation	1983	61979

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

0

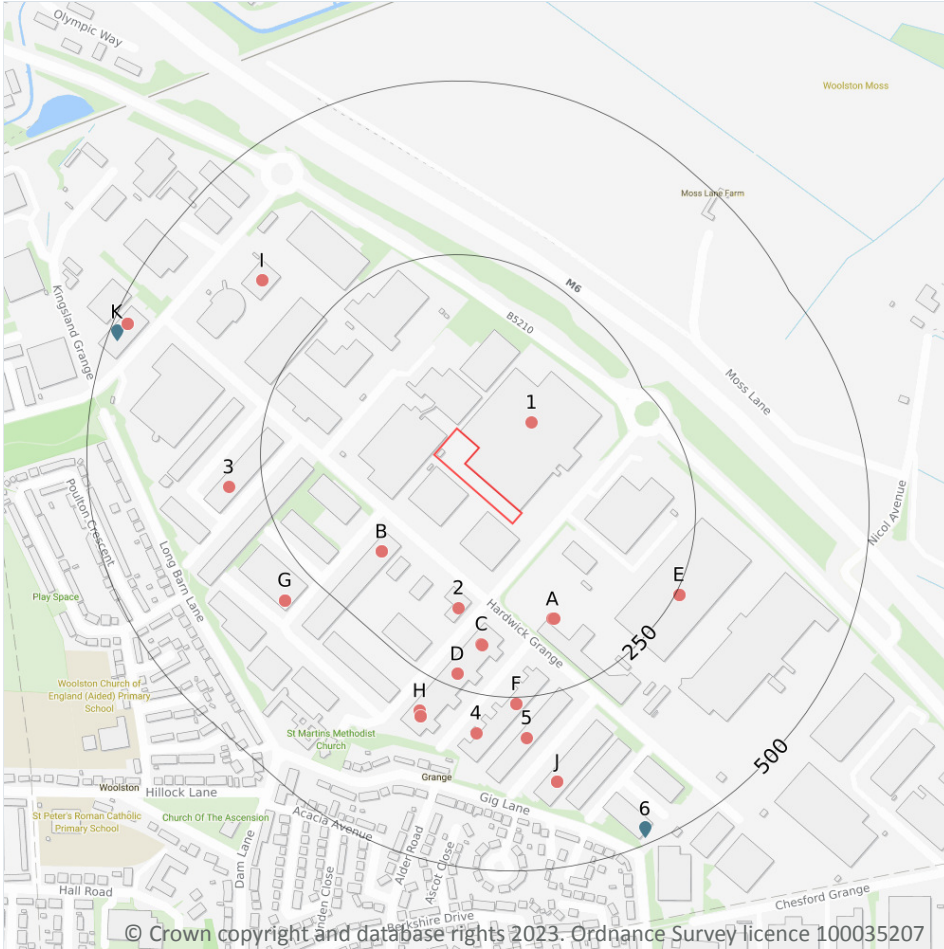
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m **0**

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m **0**

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

2

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 22 >](#)

ID	Location	Details		
6	479m SE	Site Name: Howcan Ltd Site Address: Unit 6, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOW038 EPR reference: EA/EPR/DP3593LD/S002 Operator: Howcan Ltd Waste Management licence No: 100751 Annual Tonnage: 0	Issue Date: 28/01/2009 Effective Date: - Modified: - Surrendered Date: 22/07/2009 Expiry Date: - Cancelled Date: - Status: Surrendered

ID	Location	Details		
K	490m W	Site Name: Y S Reclamation Limited Site Address: 28, Kingsland Grange, Woolston, Warrington, Cheshire, WA1 4RW Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YSR001 EPR reference: EA/EPR/GB3702TD/A001 Operator: Y S Reclamation Limited Waste Management licence No: 405707 Annual Tonnage: 11999	Issue Date: 16/10/2019 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	43
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 22 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	83m NE	M&S 48 Hardwick Grange Woolston WA1 4RF	EPR/EF0902KA /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
2	145m S	48, Hardwick Grange, Woolston, WA1 4RF	WEX012696	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	149m SE	Unit 24-26 Rufford Court WARRINGTON WA1 4RF	EPR/VE5389W C/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
A	150m SE	Iceland Depot Hardwick Grange Warrington Cheshire WA1 4RF	EPR/ZE5052AR /A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
B	156m SW	-	WEX273567	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	156m SW	-	WEX273567	Storing waste exemption	Not on a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
B	156m SW	1-2, MELFORD COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RZ	WEX132697	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	156m SW	1-2, MELFORD COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RZ	WEX132697	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	156m SW	1-2, MELFORD COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RZ	WEX132697	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	180m S	24-26 Rufford Court Warrington WA1 4RF	EPR/LF0133DG /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in secure containers
C	181m S	48 Hardwick Grange WA1 4RF	EPR/UF0703N F/A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
D	231m S	UNIT 28, RUFFORD COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX286551	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	231m S	RUFFORD COURT, UNIT 28, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX148823	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	255m SE	HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX314063	Treating waste exemption	Not on a Farm	Preparatory treatments (baling, sorting, shredding etc)
E	255m SE	HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX177329	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	255m SE	HARDWICK GRANGE WOOLSTON WARRINGTON WA1 4RF	WEX007934	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	260m S	RUFFORD COURT, UNIT 14- 15, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX171661	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
F	260m S	RUFFORD COURT, UNIT 14-15, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX171661	Storing waste exemption	Not on a farm	Storage of waste in secure containers
F	260m S	RUFFORD COURT, UNIT 14-15, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX171661	Disposing of waste exemption	Not on a farm	Depositing samples of waste for the purposes of testing or analysing them
3	300m W	34 Tatton Court WA1 4FF	EPR/NE5282SK /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
G	301m SW	1-2 Melford Court Hardwick Grange Warrington Cheshire WA1 4RZ	EPR/CF0705TL /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
G	301m SW	1-2 Melford Court Hardwick Grange Warrington Cheshire WA1 4RZ	EPR/CF0705TL /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
G	301m SW	1-2 Melford Court Hardwick Grange Warrington Cheshire WA1 4RZ	EPR/CF0705TL /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
G	301m SW	1-2 Melford Court Hardwick Grange Warrington Cheshire WA1 4RZ	EPR/BF0733CK /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
G	301m SW	1-2 Melford Court Hardwick Grange Warrington Cheshire WA1 4RZ	EPR/BF0733CK /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
H	302m S	24-26 Rufford Court Hardwick Grange Warrington Cheshire WA1 4RF	EPR/HE5645V E/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
H	302m S	24-26 Rufford Court Hardwick Grange Warrington Cheshire WA1 4RF	EPR/HE5645V E/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
4	307m S	Units 24 - 26 Rufford Court Warrington WA14RF	EPR/FE5685W A/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
H	308m S	RUFFORD COURT, UNIT 24-26, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX220208	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	308m S	RUFFORD COURT, UNIT 24-26, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX220208	Storing waste exemption	Not on a farm	Storage of waste in secure containers
H	308m S	RUFFORD COURT, UNIT 24-26, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX074947	Storing waste exemption	Not on a farm	Storage of waste in secure containers
H	308m S	RUFFORD COURT, UNIT 24-26, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RF	WEX074947	Storing waste exemption	Not on a farm	Storage of waste in a secure place
5	310m S	Rivington Court 5 Hardwick Grange WARRINGTON WA1 4RT	EPR/XF0039WP/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
I	351m NW	28, KINGSLAND GRANGE, WOOLSTON, WARRINGTON, WA1 4RW	WEX291502	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	351m NW	28, KINGSLAND GRANGE, WOOLSTON, WARRINGTON, WA1 4RW	WEX291502	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
J	378m S	5, RIVINGTON COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RT	WEX235922	Storing waste exemption	Not on a farm	Storage of waste in a secure place
J	378m S	5, RIVINGTON COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RT	WEX235922	Storing waste exemption	Not on a farm	Storage of waste in secure containers
J	378m S	5, RIVINGTON COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RT	WEX090403	Storing waste exemption	Not on a farm	Storage of waste in secure containers
J	378m S	5, RIVINGTON COURT, HARDWICK GRANGE, WOOLSTON, WARRINGTON, WA1 4RT	WEX090403	Storing waste exemption	Not on a farm	Storage of waste in a secure place

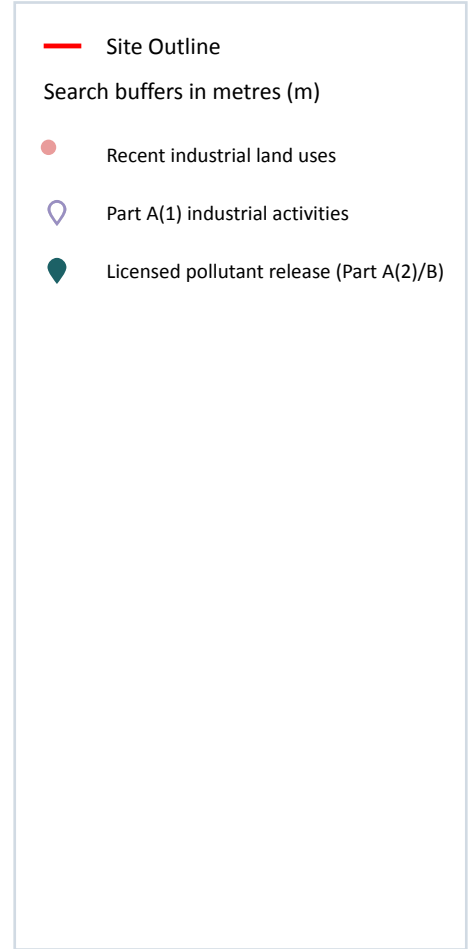
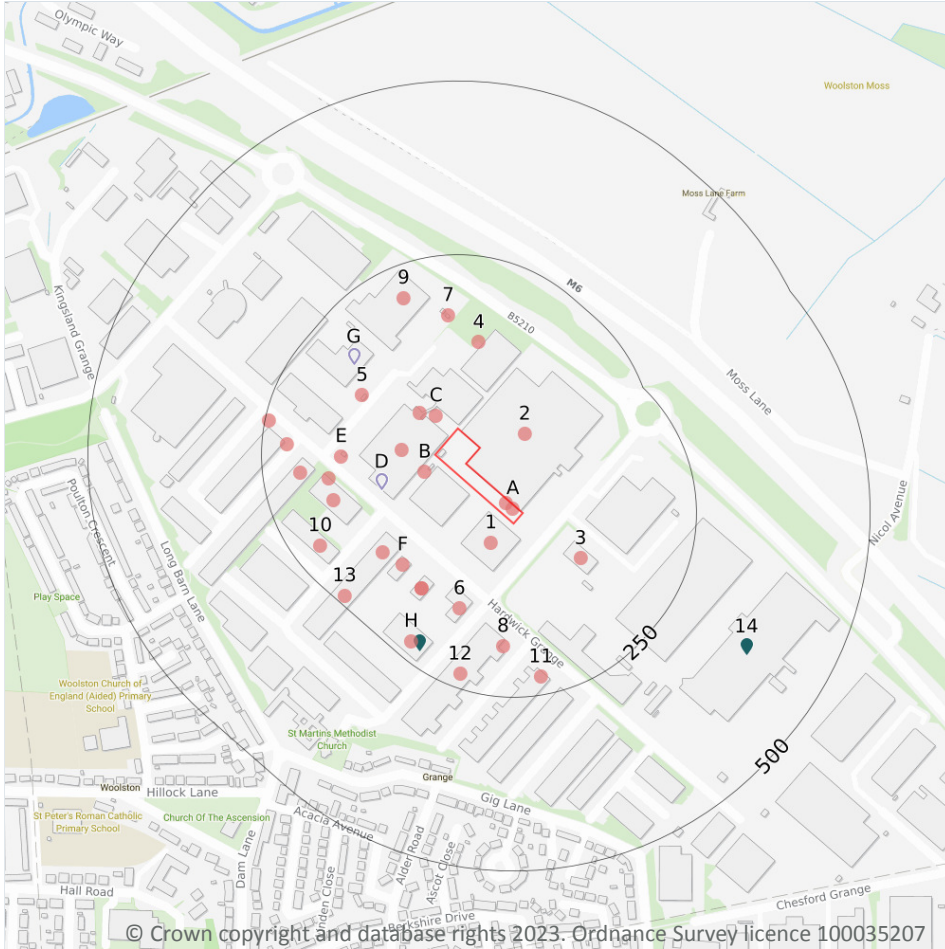


ID	Location	Site	Reference	Category	Sub-Category	Description
K	480m NW	28 Kingsland Grange WA1 4RW	EPR/JE5650DN /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
K	480m NW	28 Kingsland Grange WA1 4RW	EPR/JE5650DN /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
K	480m NW	28 Kingsland Grange WARRINGTON WA1 4RW	EPR/JE5587C M/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
K	480m NW	28 Kingsland Grange WARRINGTON WA1 4RW	EPR/JE5587C M/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m **30**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 29 >](#)

ID	Location	Company	Address	Activity	Category
A	On site	Tank	Cheshire, WA1	Tanks (Generic)	Industrial Features
A	On site	Tank	Cheshire, WA1	Tanks (Generic)	Industrial Features
B	28m W	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
C	36m NW	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities
1	42m S	T M D Friction	46-47, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	48m W	Avdel UK	43-43b, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Industrial Coatings and Finishings	Industrial Products
C	56m NW	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities
2	67m NE	XPO Logistics	48, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Distribution and Haulage	Transport, Storage and Delivery
3	106m SE	Warrington Vehicle Centre	2, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	New Vehicles	Motoring
4	128m N	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities
E	135m W	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities
5	136m NW	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities
6	145m S	Bespoke Bodies Ltd	38-39, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Vehicle Bodybuilders	Industrial Products
F	150m SW	James Fisher Testing Services	Ruby House, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Industrial Engineers	Engineering Services
F	155m SW	Corroventa Ltd	1-2, Melford Court, Woolston, Warrington, Cheshire, WA1 4RZ	Air and Water Filtration	Industrial Products
F	157m SW	Technology Design	40, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Measurement and Inspection Equipment	Industrial Products
F	157m SW	Phoenix Inspection Systems Ltd	40, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Measurement and Inspection Equipment	Industrial Products
E	157m W	Works	Cheshire, WA1	Unspecified Works Or Factories	Industrial Features
E	160m W	Weldspares	50, Melford Court, Woolston, Warrington, Cheshire, WA1 4RZ	Tools Including Machine Shops	Industrial Products
7	164m N	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
8	177m S	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities
E	196m W	Brindley Chains Ltd	1-2 Tatton Court, Kingsland Grange, Woolston, Warrington, Cheshire, WA1 4RR	Bearing, Gear and Drive Elements	Industrial Products
9	204m N	Toyota Material Handling	6, Kingsland Grange, Woolston, Warrington, Cheshire, WA1 4RW	Lifting and Handling Equipment	Industrial Products
10	211m SW	Baxi	48, Melford Court, Woolston, Warrington, Cheshire, WA1 4RZ	Ovens and Furnaces	Industrial Products
E	214m W	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities
11	224m S	Metal Kraft Design Ltd	9, Rufford Court, Woolston, Warrington, Cheshire, WA1 4RF	Metalworkers Including Blacksmiths	Construction Services
H	224m S	Petit Forestier	37, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Vehicle Hire and Rental	Hire Services
12	230m S	Xylem	Unit 28 Rufford Court, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RF	Air and Water Filtration	Industrial Products
13	238m SW	Westbrook Welding Alloys Ltd	5, Melford Court, Woolston, Warrington, Cheshire, WA1 4RZ	Distribution and Haulage	Transport, Storage and Delivery
E	245m W	Electricity Sub Station	Cheshire, WA1	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m
0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m
21

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 29 >](#)

ID	Location	Details	
D	86m W	Operator: Avdel Metal Finishing Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: KP3136XG Original Permit Number: KP3136XG	EPR Reference: - Issue Date: 16/02/2009 Effective Date: 05/08/2009 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: ASSOCIATED PROCESS Permit Number: NP3837EG Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 28/01/2014 Effective Date: 28/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: ASSOCIATED PROCESS Permit Number: VP3331DV Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 14/12/2016 Effective Date: 14/12/2016 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO- CHEMICAL TREATMENT Permit Number: VP3331DV Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 14/12/2016 Effective Date: 14/12/2016 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel Metal Finishing Limited Installation Name: Avdel UK Ltd Process: ASSOCIATED PROCESS Permit Number: KP3136XG Original Permit Number: KP3136XG	EPR Reference: - Issue Date: 16/02/2009 Effective Date: 05/08/2009 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
D	86m W	Operator: Avdel Metal Finishing Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: WP3931HT Original Permit Number: KP3136XG	EPR Reference: - Issue Date: 08/06/2011 Effective Date: 08/06/2011 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: GP3638EJ Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 20/01/2014 Effective Date: 20/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO- CHEMICAL TREATMENT Permit Number: GP3730QD Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: - Effective Date: 17/08/2018 Last date noted as effective: 21/03/2023 Status: Surrender Effective
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: GP3730QD Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: - Effective Date: 17/08/2018 Last date noted as effective: 21/03/2023 Status: Surrender Effective
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: HP3036WB Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 09/12/2014 Effective Date: 09/12/2014 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO- CHEMICAL TREATMENT Permit Number: NP3837EG Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 28/01/2014 Effective Date: 28/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: ASSOCIATED PROCESS Permit Number: GP3638EJ Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 20/01/2014 Effective Date: 20/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: GP3730QD Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: - Effective Date: 17/08/2018 Last date noted as effective: 21/03/2023 Status: Surrender Effective
D	86m W	Operator: Avdel Metal Finishing Limited Installation Name: Avdel UK Ltd Process: ASSOCIATED PROCESS Permit Number: WP3931HT Original Permit Number: KP3136XG	EPR Reference: - Issue Date: 08/06/2011 Effective Date: 08/06/2011 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: ASSOCIATED PROCESS Permit Number: GP3730QD Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: - Effective Date: 17/08/2018 Last date noted as effective: 21/03/2023 Status: Surrender Effective
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: ASSOCIATED PROCESS Permit Number: HP3036WB Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 09/12/2014 Effective Date: 09/12/2014 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO- CHEMICAL TREATMENT Permit Number: HP3036WB Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 09/12/2014 Effective Date: 09/12/2014 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: NP3837EG Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 28/01/2014 Effective Date: 28/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded
D	86m W	Operator: Avdel UK Limited Installation Name: Avdel UK Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: VP3331DV Original Permit Number: GP3638EJ	EPR Reference: - Issue Date: 14/12/2016 Effective Date: 14/12/2016 Last date noted as effective: 21/03/2023 Status: Superseded
G	180m NW	Operator: LIFE TECHNOLOGIES LTD Installation Name: WOOLSTON LIFESCIENCES Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: ZP3434ZS Original Permit Number: KP3830FE	EPR Reference: - Issue Date: 11/02/2013 Effective Date: 07/02/2013 Last date noted as effective: 01/04/2013 Status: EFFECTIVE



ID	Location	Details	
G	180m NW	Operator: Life Technologies Ltd Installation Name: Woolston Lifesciences Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: RP3332CZ Original Permit Number: KP3830FE	EPR Reference: - Issue Date: 01/06/2012 Effective Date: 01/06/2012 Last date noted as effective: 21/03/2023 Status: Superseded

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	2
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 29 >](#)

ID	Location	Address	Details	
H	218m S	Lamberet Isotherms Ltd, 37 Hardwick Grange, Warrington, WA1 4RF	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
14	374m SE	Apple Web Offset, Chesford Grange, WA1 4RQ	Process: Printing Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.13 Licensed Discharges to controlled waters

Records within 500m 0

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m 0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m 0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m 0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m 0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

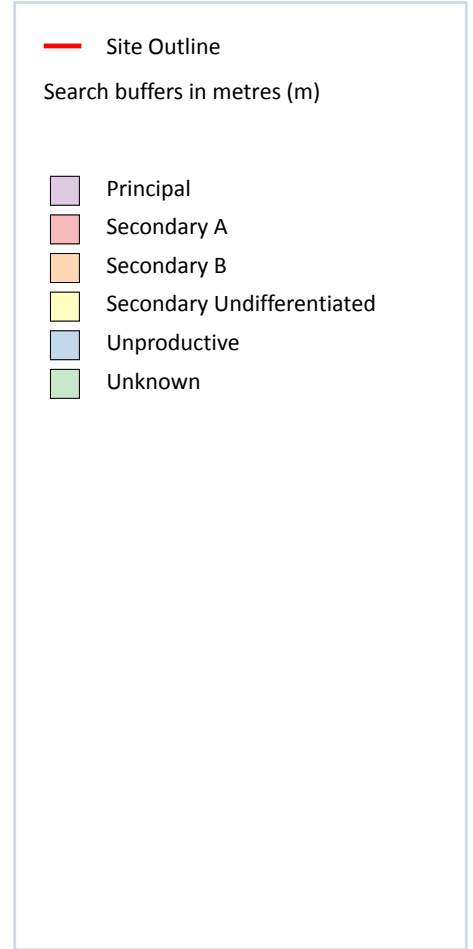
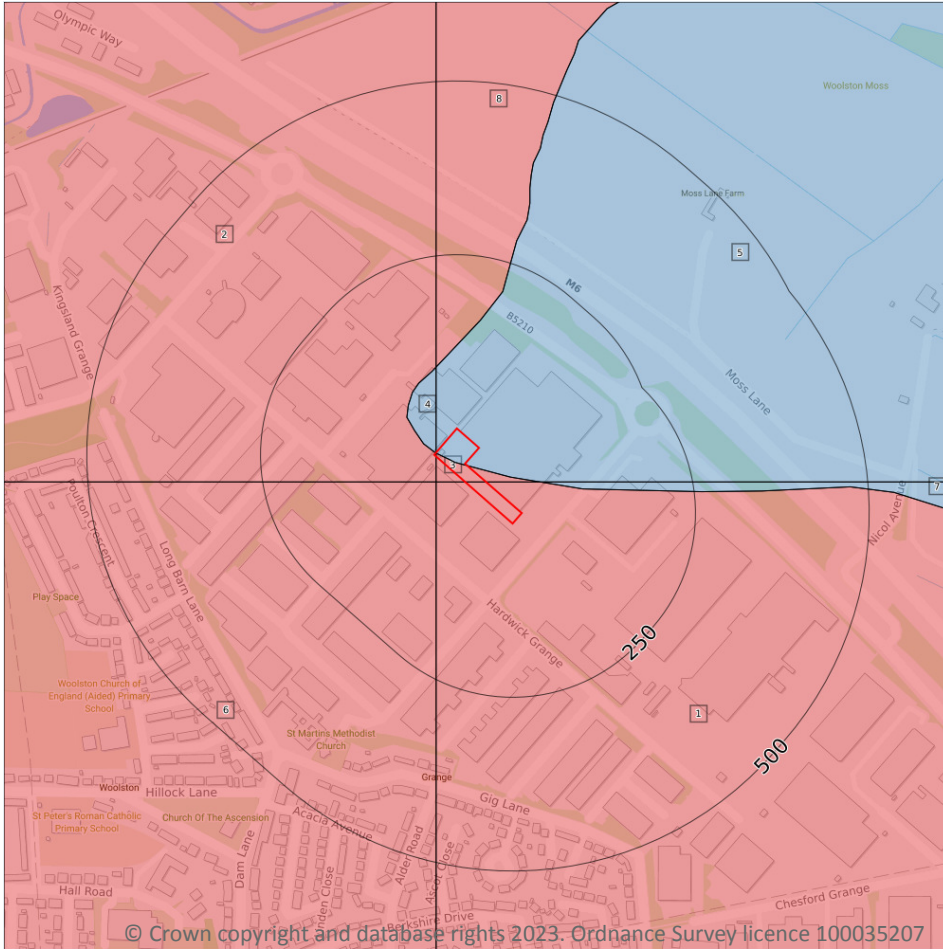
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

8

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 39](#) >

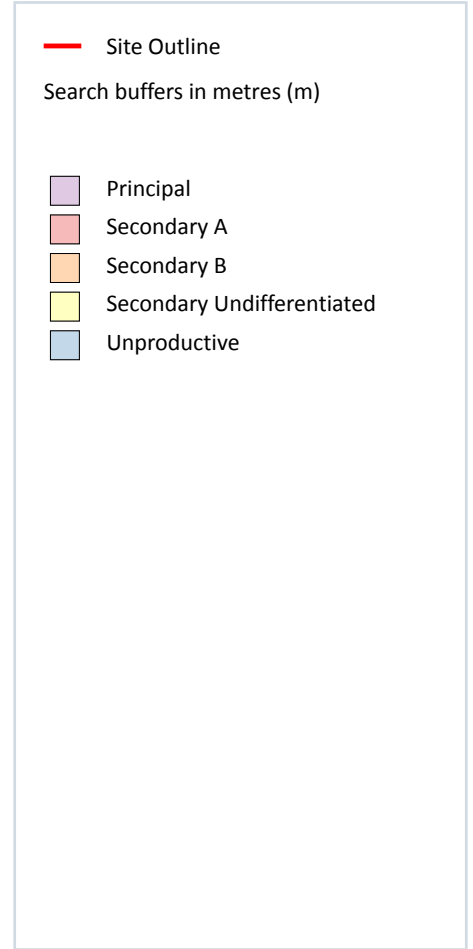
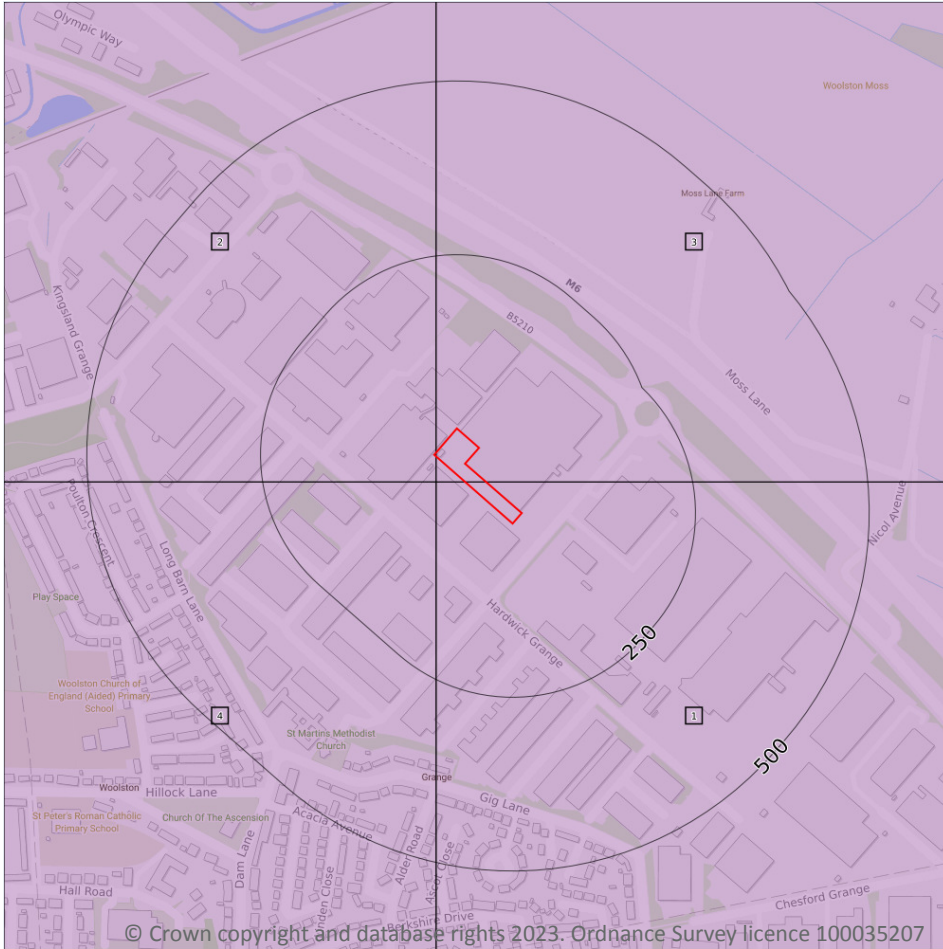
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	28m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	51m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	93m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features (are) are displayed on the Bedrock aquifer map on [page 41](#) >

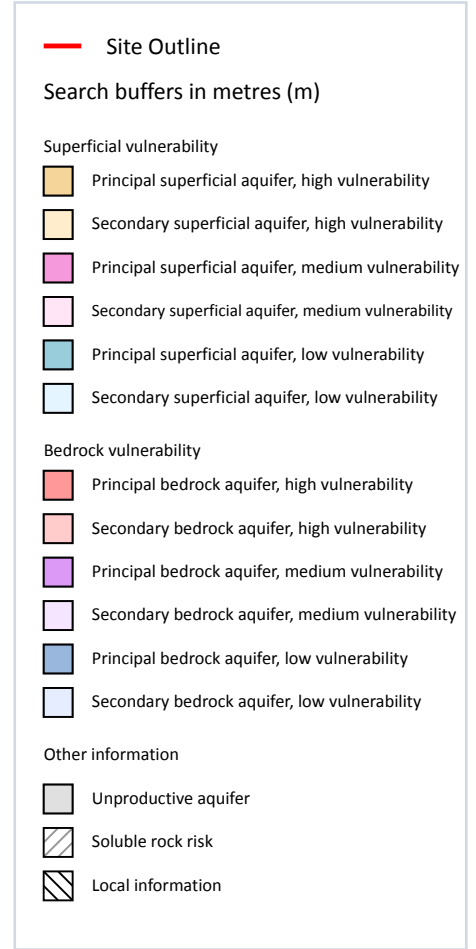
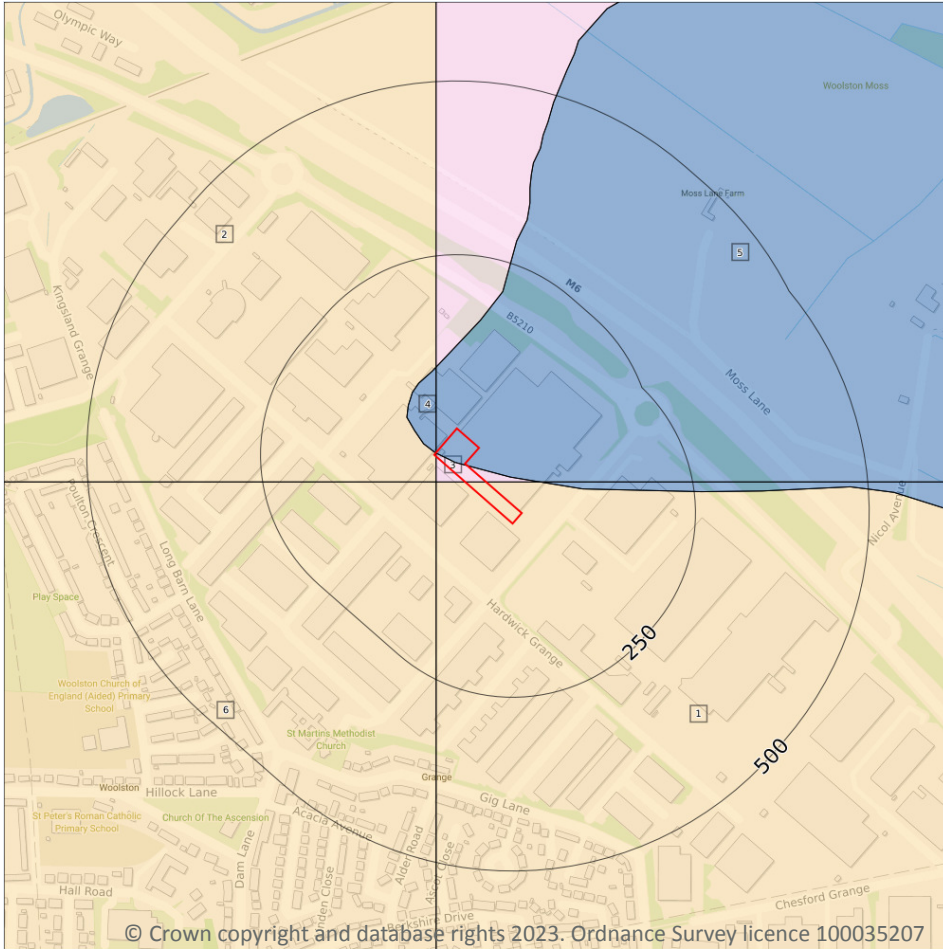
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	28m W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

6

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 43](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
4	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
5	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
6	27m W	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

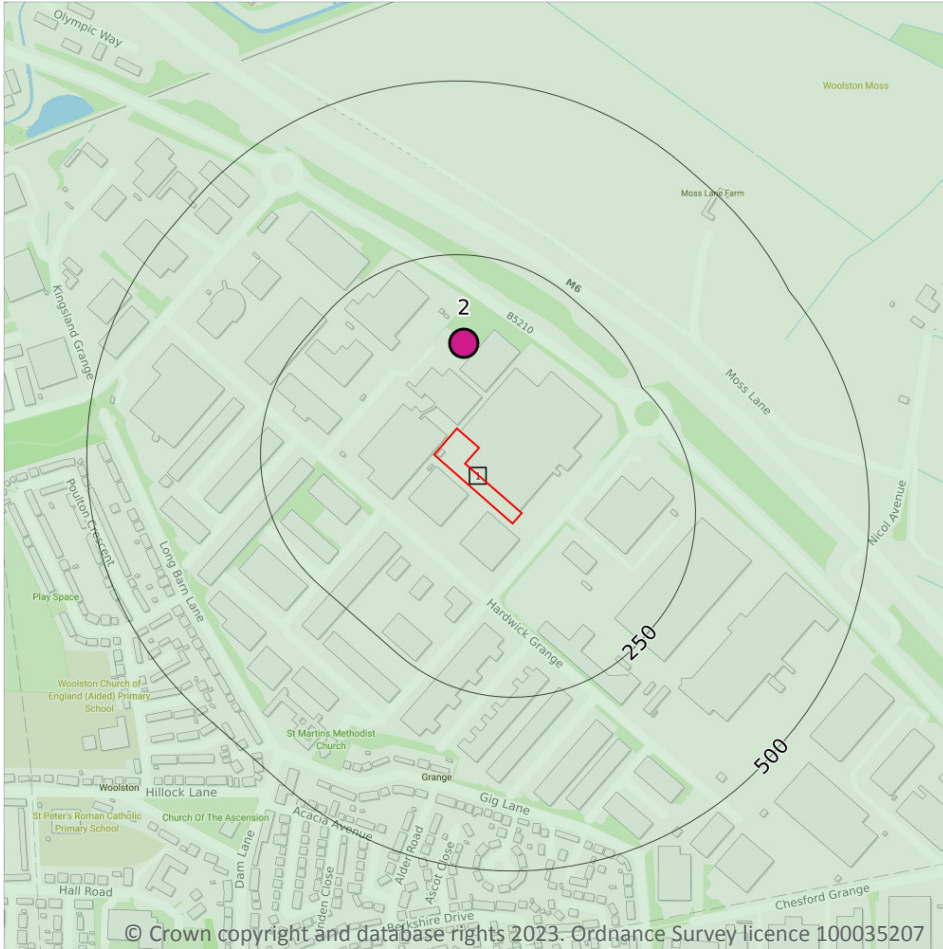
0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

10

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 46](#) >

ID	Location	Details	
2	123m N	Status: Historical Licence No: 2569022007 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT HARDWICK GRANGE WOOLSTON WARRINGTON Data Type: Point Name: M H E LOGISTICS LIMITED Easting: 365040 Northing: 390200	Annual Volume (m ³): 100000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 11/11/2005 Expiry Date: 31/03/2011 Issue No: 2 Version Start Date: 19/03/2007 Version End Date: -
-	1192m W	Status: Historical Licence No: 2569022004 Details: General Washing/Process Washing Direct Source: Ground Water - North West Region Point: BOREHOLE AT KINGSLAND GRANGE, WOOLSTON, WARRINGTON Data Type: Point Name: HAZLEWOOD CONVENIENCE GROUP 1 LTD Easting: 363820 Northing: 390230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2005 Issue No: 1 Version Start Date: 10/03/2000 Version End Date: -
-	1192m W	Status: Historical Licence No: 2569022004 Details: General Washing/Process Washing Direct Source: Ground Water - North West Region Point: "BOREHOLE AT KINGSLAND GRANGE, WOOLSTON, WARRINGTON" Data Type: Point Name: HAZLEWOOD CONVENIENCE GROUP 1 LTD Easting: 363820 Northing: 390230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31-Mar-05 Issue No: 1 Version Start Date: 10/03/2000 Version End Date: -
-	1192m W	Status: Historical Licence No: 2569022006 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT KINGSLAND GRANGE, WOOLSTON, WARRINGTON Data Type: Point Name: HAZLEWOOD CONVENIENCE GROUP 1 LTD Easting: 363820 Northing: 390230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/08/2003 Expiry Date: 31/03/2010 Issue No: 1 Version Start Date: 04/08/2003 Version End Date: -



ID	Location	Details	
-	1229m W	Status: Historical Licence No: 2569022006 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT KINGSLAND GRANGE, WOOLSTON, WARRINGTON Data Type: Point Name: HAZLEWOOD CONVENIENCE GROUP 1 LTD Easting: 363780 Northing: 390210	Annual Volume (m ³): 520000 Max Daily Volume (m ³): 1560 Original Application No: - Original Start Date: 04/08/2003 Expiry Date: 31/03/2010 Issue No: 2 Version Start Date: 10/05/2005 Version End Date: -
-	1229m W	Status: Historical Licence No: NW/069/0022/001 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT KINGSLAND GRANGE, WOOLSTON, WARRINGTON Data Type: Point Name: Greencore Prepared Meals Limited Easting: 363780 Northing: 390210	Annual Volume (m ³): 520000 Max Daily Volume (m ³): 1560 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 14/10/2014 Version End Date: -
-	1229m W	Status: Active Licence No: NW/069/0022/001/R01 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE A AT KINGSLAND GRANGE, WOOLSTON, WARRINGTON Data Type: Point Name: Greencore Prepared Meals Limited Easting: 363780 Northing: 390210	Annual Volume (m ³): 520000 Max Daily Volume (m ³): 1560 Original Application No: NPS WR/019545 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1295m W	Status: Historical Licence No: 2569022006 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT KINGSLAND GRANGE WARRINGTON Data Type: Point Name: HAZLEWOOD CONVENIENCE GROUP 1 LTD Easting: 363710 Northing: 390180	Annual Volume (m ³): 520000 Max Daily Volume (m ³): 1560 Original Application No: - Original Start Date: 04/08/2003 Expiry Date: 31/03/2010 Issue No: 2 Version Start Date: 10/05/2005 Version End Date: -



ID	Location	Details	
-	1295m W	Status: Historical Licence No: NW/069/0022/001 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT KINGSLAND GRANGE WARRINGTON Data Type: Point Name: Greencore Prepared Meals Limited Easting: 363710 Northing: 390180	Annual Volume (m ³): 520000 Max Daily Volume (m ³): 1560 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 14/10/2014 Version End Date: -
-	1295m W	Status: Active Licence No: NW/069/0022/001/R01 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE B AT KINGSLAND GRANGE WARRINGTON Data Type: Point Name: Greencore Prepared Meals Limited Easting: 363710 Northing: 390180	Annual Volume (m ³): 520000 Max Daily Volume (m ³): 1560 Original Application No: NPS/WR/019545 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

3

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 46 >](#)

ID	Location	Details	
-	1243m S	Status: Historical Licence No: NW/069/0021/003 Details: Fish Pass/Canoe Pass Direct Source: Surface, Non-Tidal - North West Region Point: RIVER MERSEY, WOOLSTON WEIR Data Type: Point Name: Environment Agency Easting: 365229 Northing: 388702	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 06/12/2012 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 06/12/2012 Version End Date: -



ID	Location	Details	
-	1665m SW	Status: Historical Licence No: NW/069/0021/001 Details: Make-Up Or Top Up Water Direct Source: Surface, Non-Tidal - North West Region Point: RIVER MERSEY IN WOOLSTON WARRINGTON Data Type: Point Name: WARRINGTON BOROUGH COUNCIL Easting: 363720 Northing: 388970	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 1100 Original Application No: - Original Start Date: 15/02/2010 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 15/02/2010 Version End Date: -
-	1773m SE	Status: Historical Licence No: NW/069/0015/010 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: RIVER MERSEY - RIXTON, WARRINGTON - POINTS A & B Data Type: Line Name: A K SHARPE AND SONS Easting: 366603 Northing: 388977	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 2400 Original Application No: NPS/WR/029123 Original Start Date: 05/02/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 05/02/2019 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0
-----------------------------	----------

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	1
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

Features are displayed on the Abstractions and Source Protection Zones map on [page 46 >](#)

ID	Location	Type	Description
1	On site	3	Total catchment

This data is sourced from the Environment Agency and Natural Resources Wales.



5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 52 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Spittle Brook	GB112069061020	Glaze	Mersey Lower

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 52 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	638m N	River	Spittle Brook	GB112069061020 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.



Features are displayed on the Hydrology map on [page 52](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers	GB41201G101700 ↗	Poor	Poor	Poor	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

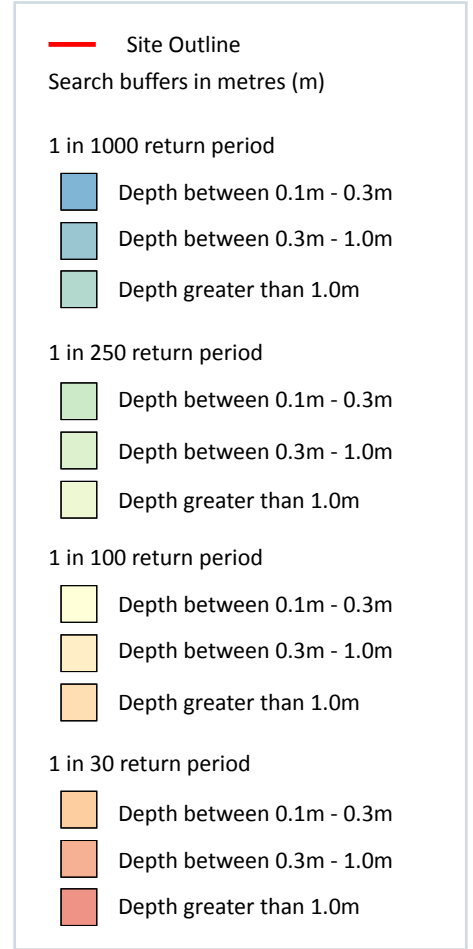
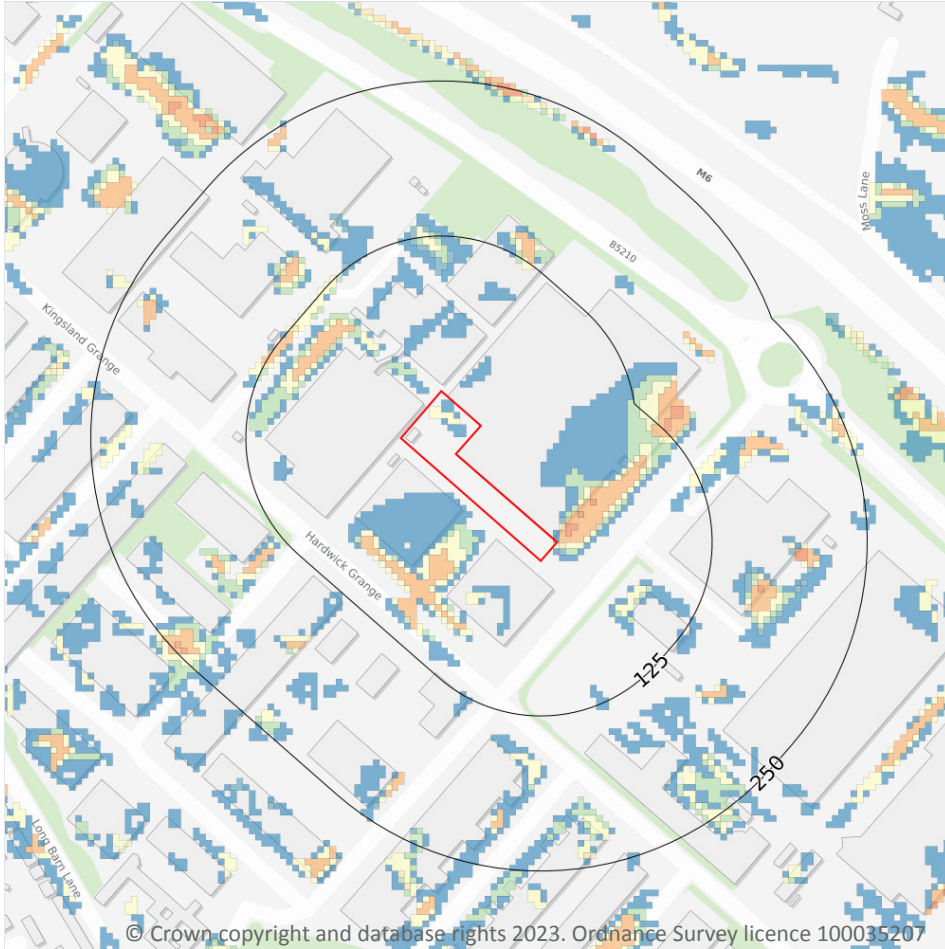
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 100 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on [page 58 >](#)

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

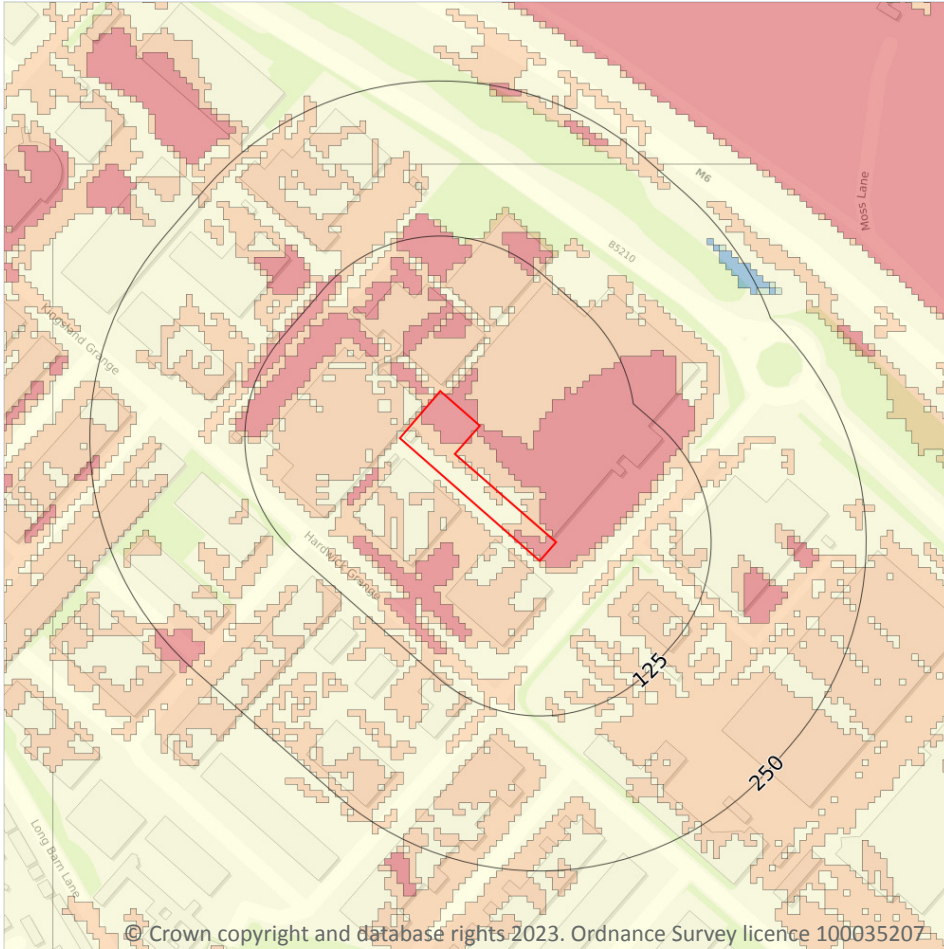
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

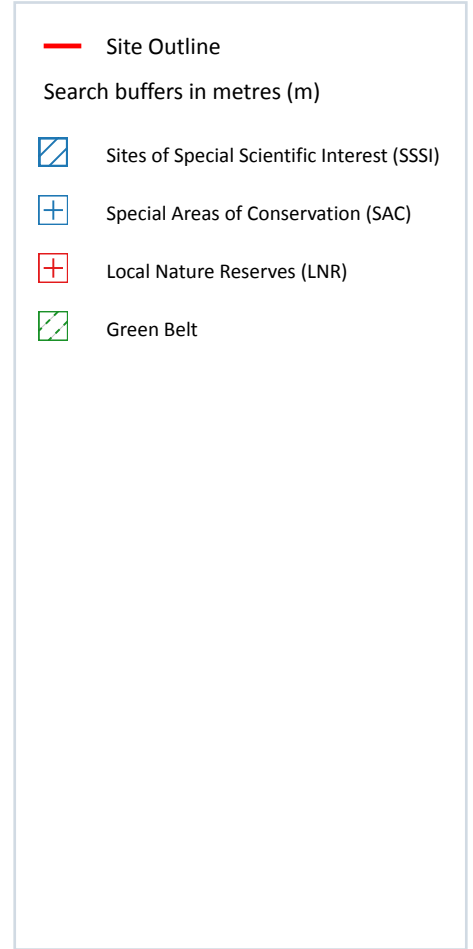
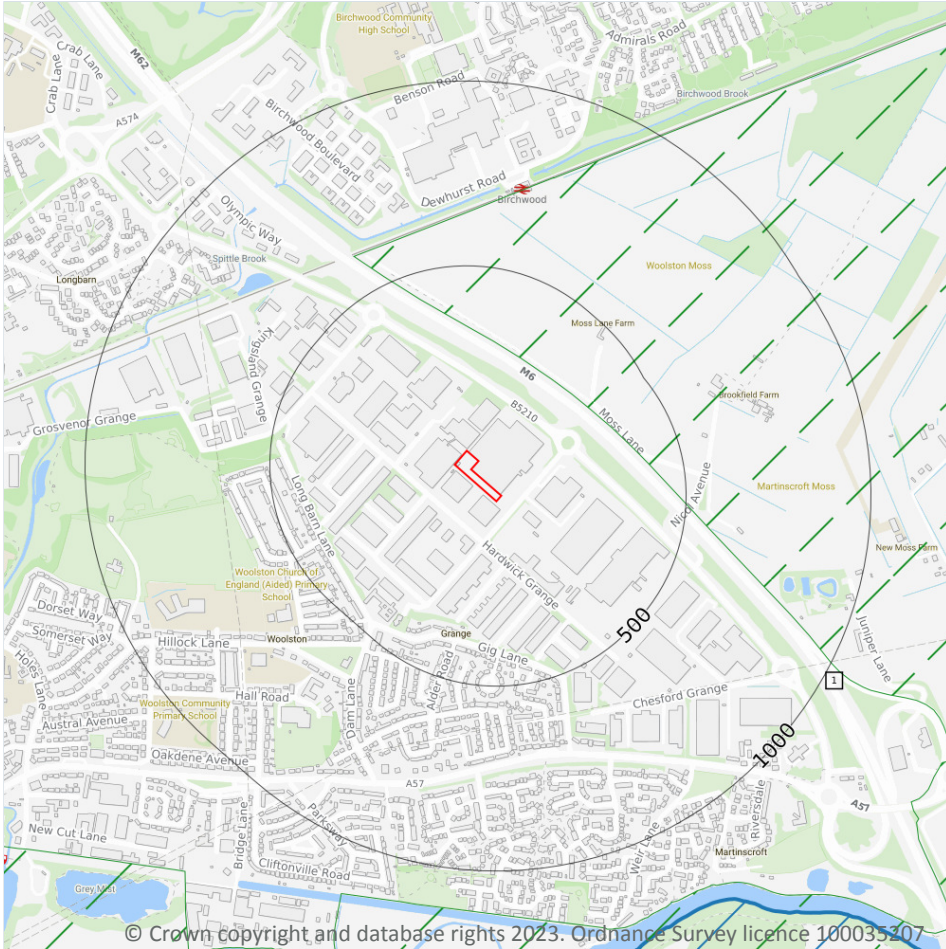
High

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 60 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

4

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on [page 61](#) >

ID	Location	Name	Data source
2	1231m SE	Woolston Eyes	Natural England



ID	Location	Name	Data source
-	1305m S	Woolston Eyes	Natural England
-	1371m S	Woolston Eyes	Natural England
-	1773m NE	Risley Moss	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on [page 61 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
-	1773m NE	Manchester Mosses	Degraded raised bog.	Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

2

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on [page 61 >](#)

ID	Location	Name	Data source
5	1608m SW	Paddington Meadows	Natural England
-	1773m NE	Risley Moss	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

1

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on [page 61 >](#)

ID	Location	Name	Local Authority name
1	289m NE	Merseyside and Greater Manchester	Warrington

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

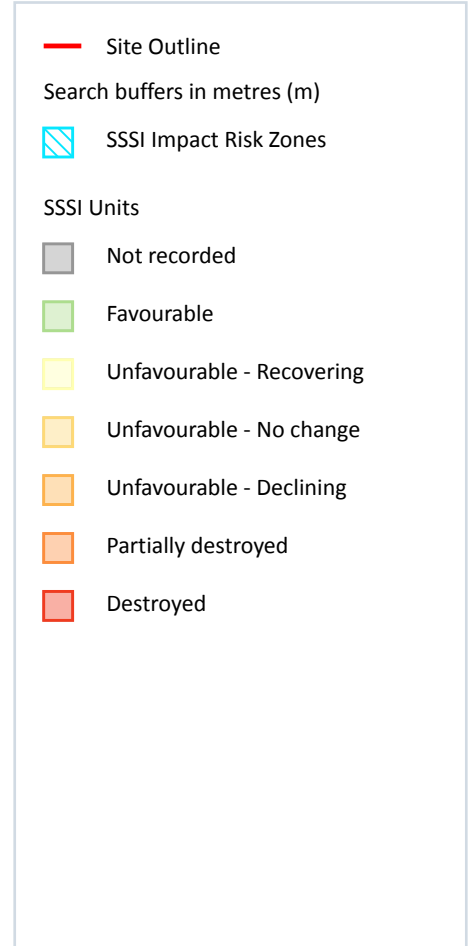
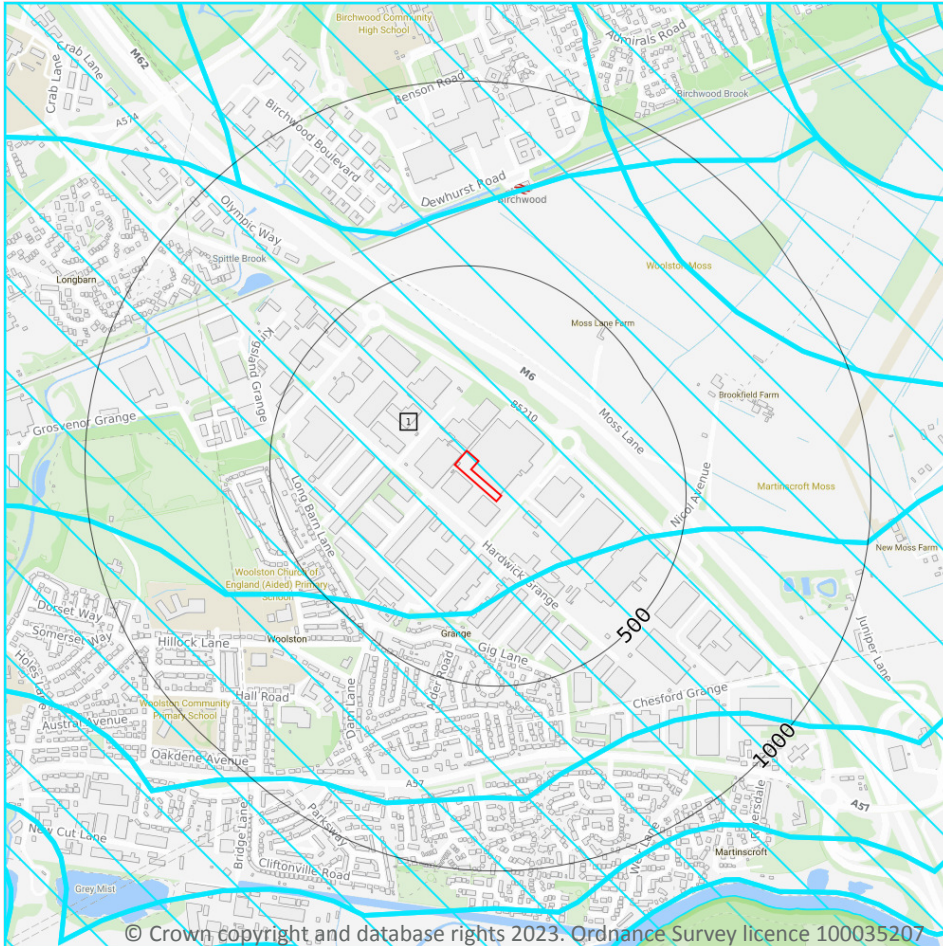
0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 66](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.</p> <p>Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	5
-----------------------------	----------

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on [page 66 >](#)

ID: 11
 Location: 1231m SE
 SSSI name: Woolston Eyes
 Unit name: Beds 1-4
 Broad habitat: Standing Open Water And Canals
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Black-necked grebe, Podiceps nigricollis	Favourable	29/11/2010
Aggregations of breeding birds - Gadwall, Anas strepera	Favourable	29/11/2010



Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Pochard, Aythya ferina	Favourable	29/11/2010
Aggregations of non-breeding birds - Gadwall, Anas strepera	Favourable	29/11/2010
Aggregations of non-breeding birds - Pochard, Aythya ferina	Favourable	29/11/2010
Aggregations of non-breeding birds - Shoveler, Anas clypeata	Favourable	29/11/2010
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/11/2010
Assemblages of breeding birds - Lowland open waters and their margins	Favourable	29/11/2010

ID: -
 Location: 1305m S
 SSSI name: Woolston Eyes
 Unit name: Beds 1-4
 Broad habitat: Standing Open Water And Canals
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Black-necked grebe, Podiceps nigricollis	Favourable	29/11/2010
Aggregations of breeding birds - Gadwall, Anas strepera	Favourable	29/11/2010
Aggregations of breeding birds - Pochard, Aythya ferina	Favourable	29/11/2010
Aggregations of non-breeding birds - Gadwall, Anas strepera	Favourable	29/11/2010
Aggregations of non-breeding birds - Pochard, Aythya ferina	Favourable	29/11/2010
Aggregations of non-breeding birds - Shoveler, Anas clypeata	Favourable	29/11/2010
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/11/2010
Assemblages of breeding birds - Lowland open waters and their margins	Favourable	29/11/2010

ID: -
 Location: 1371m S
 SSSI name: Woolston Eyes
 Unit name: Beds 1-4
 Broad habitat: Standing Open Water And Canals
 Condition: Favourable
 Reportable features:



Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Black-necked grebe, Podiceps nigricollis	Favourable	29/11/2010
Aggregations of breeding birds - Gadwall, Anas strepera	Favourable	29/11/2010
Aggregations of breeding birds - Pochard, Aythya ferina	Favourable	29/11/2010
Aggregations of non-breeding birds - Gadwall, Anas strepera	Favourable	29/11/2010
Aggregations of non-breeding birds - Pochard, Aythya ferina	Favourable	29/11/2010
Aggregations of non-breeding birds - Shoveler, Anas clypeata	Favourable	29/11/2010
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/11/2010
Assemblages of breeding birds - Lowland open waters and their margins	Favourable	29/11/2010

ID: -
 Location: 1773m NE
 SSSI name: Risley Moss
 Unit name: The Southern Woodland
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Scrub, Woodland	Favourable	24/04/2015
H7120 Degraded raised bogs (still capable of natural regeneration)	Favourable	24/04/2015
Raised bog (lowland)	Favourable	24/04/2015

ID: -
 Location: 1928m NE
 SSSI name: Risley Moss
 Unit name: The Country Park
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Scrub, Woodland	Favourable	24/04/2015
Raised bog (lowland)	Favourable	24/04/2015

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

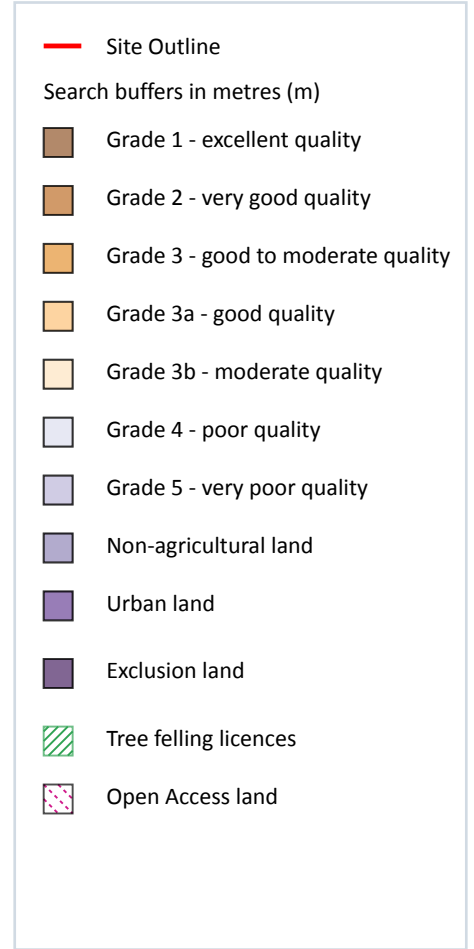
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 72](#) >

ID	Location	Classification	Description
1	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

4

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on [page 72 >](#)

ID	Location	Description	Reference	Application date
2	201m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	203m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	235m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	245m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.



12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

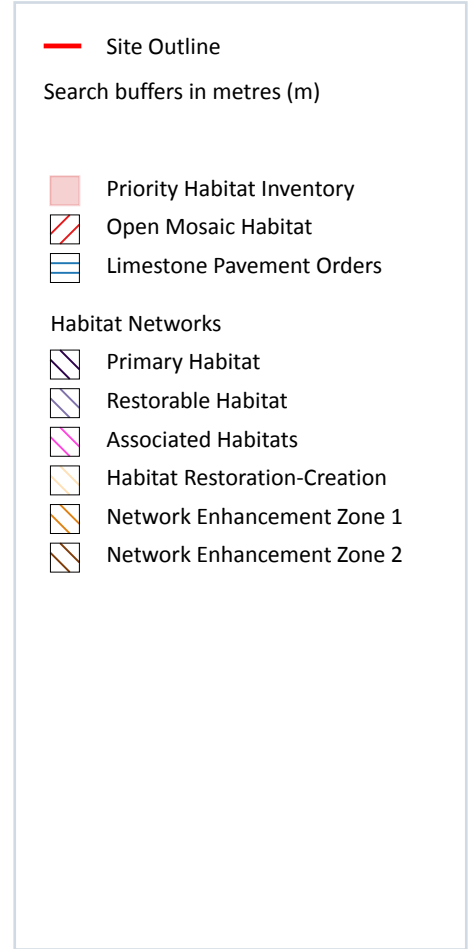
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on [page 75 >](#)

ID	Location	Main Habitat	Other habitats
1	199m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

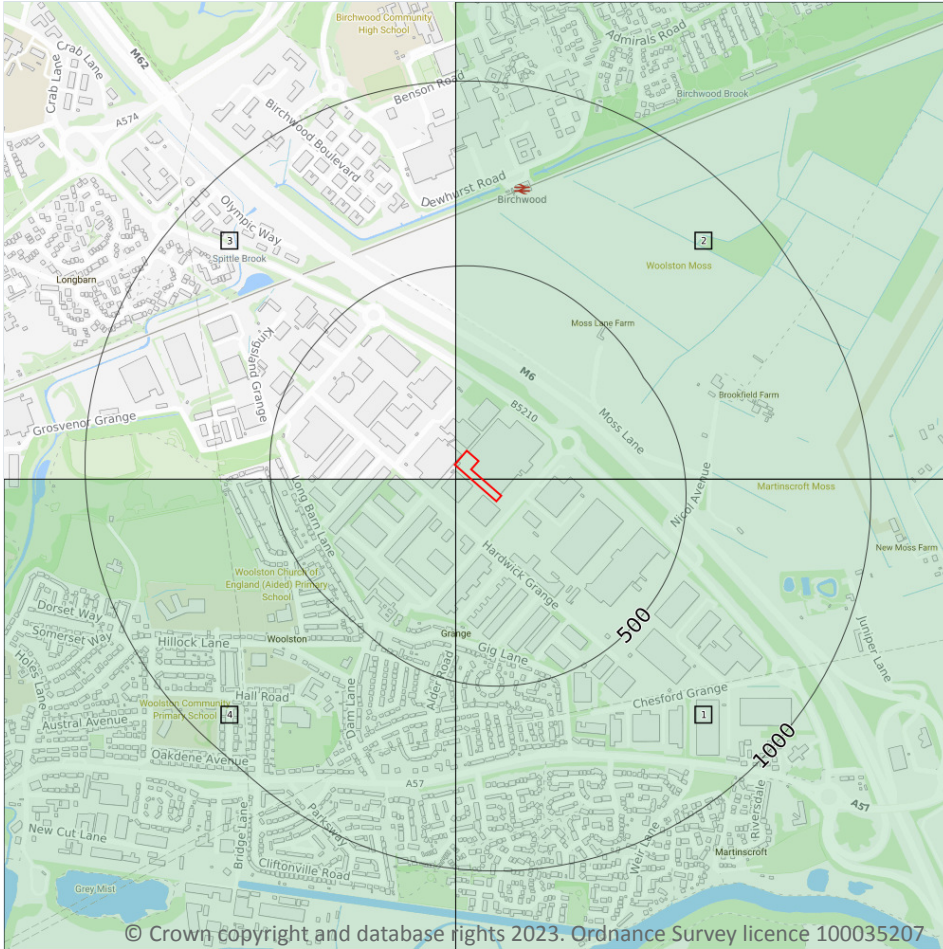
0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 77](#) >

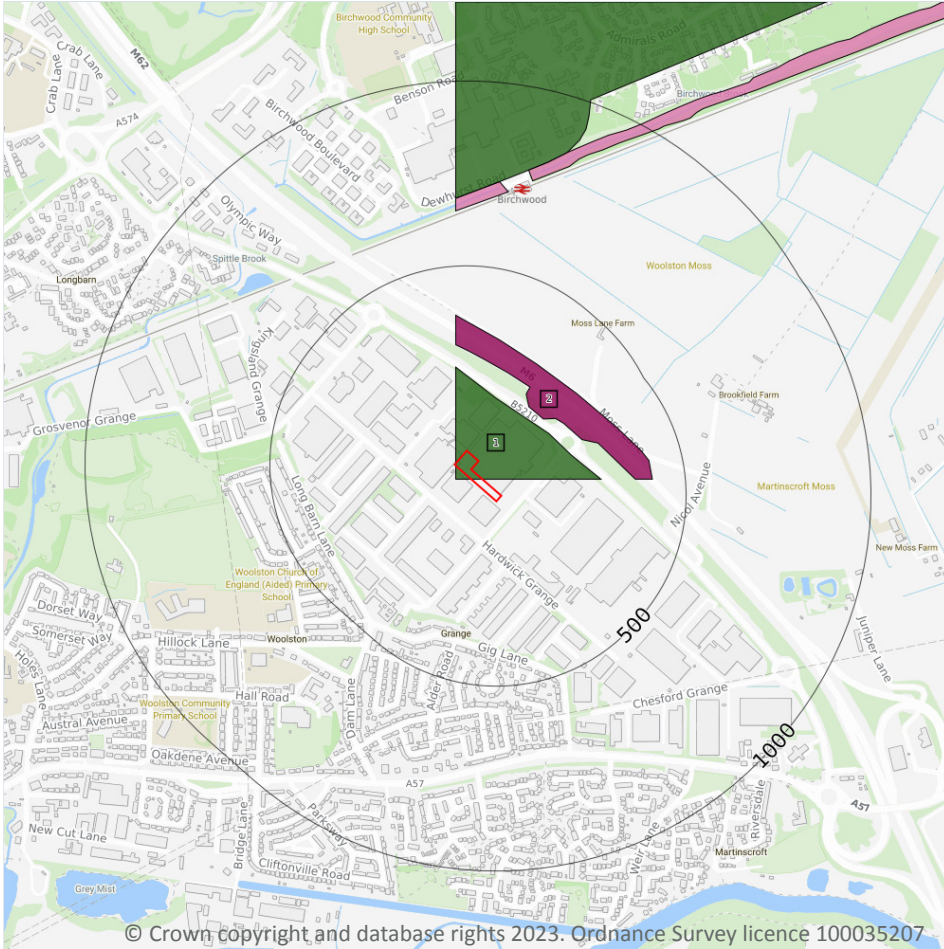
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SJ68NE
2	On site	Full	Full	Full	No coverage	SJ69SE
3	On site	No coverage	No coverage	No coverage	No coverage	NoCov
4	28m W	No coverage	Full	Full	No coverage	SJ68NW



This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

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14.2 Artificial and made ground (10k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

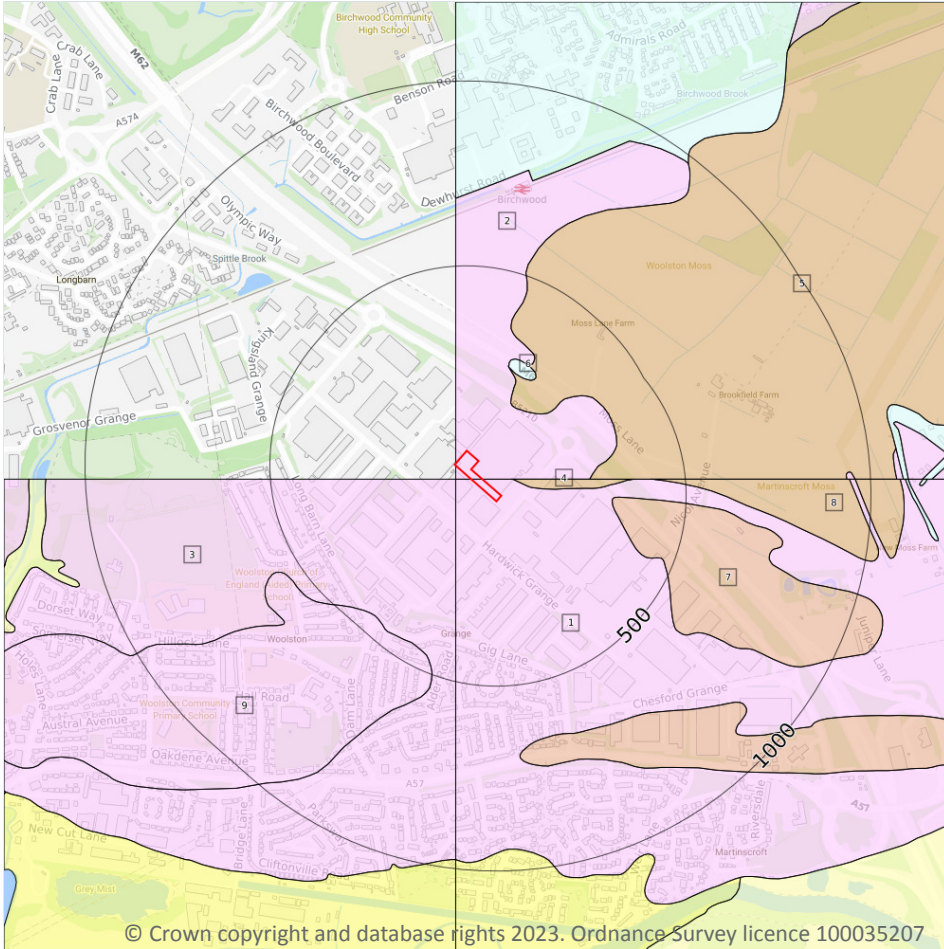
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 79 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
2	200m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)

▣ Landslip (10k)
Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

9

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 80](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
2	On site	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	28m W	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
4	54m E	PEAT-P	Peat - Peat	Peat



ID	Location	LEX Code	Description	Rock description
5	173m NE	PEAT-P	Peat - Peat	Peat
6	247m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
7	301m E	SSA-S	Shirdley Hill Sand Formation - Sand	Sand
8	411m E	PEAT-P	Peat - Peat	Peat
9	446m S	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

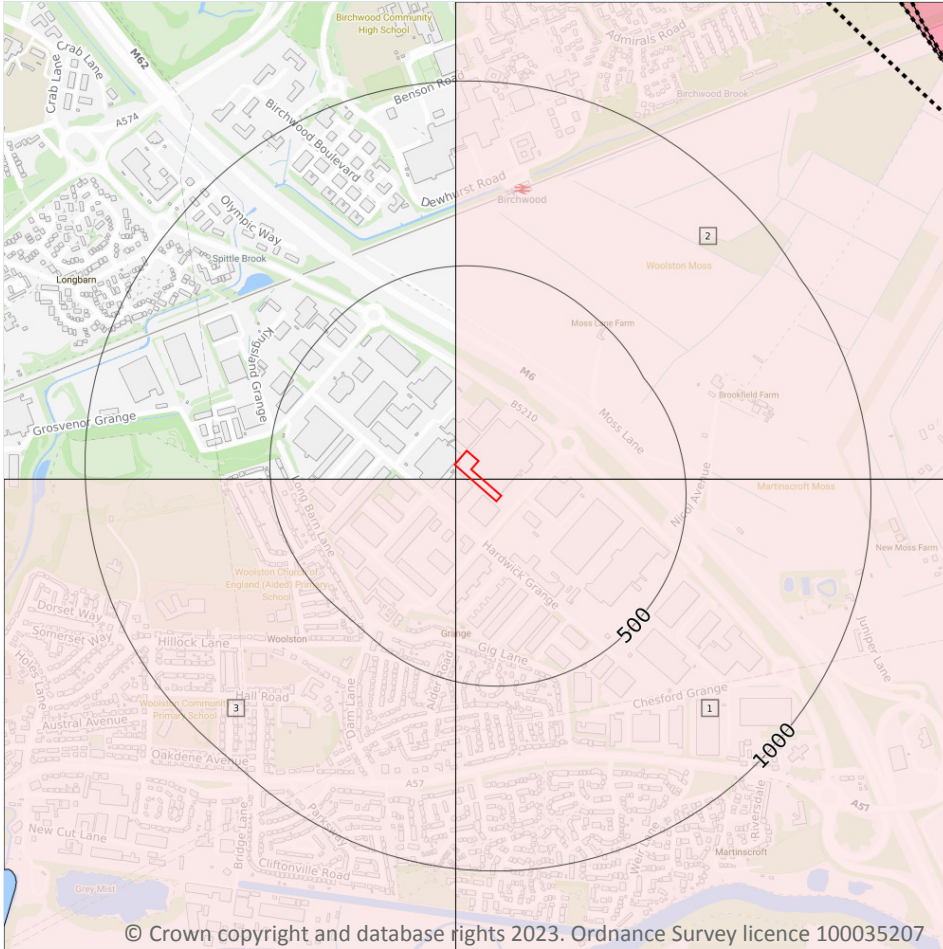
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- ⋯⋯ Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

3

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 82 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch
2	On site	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch
3	28m W	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

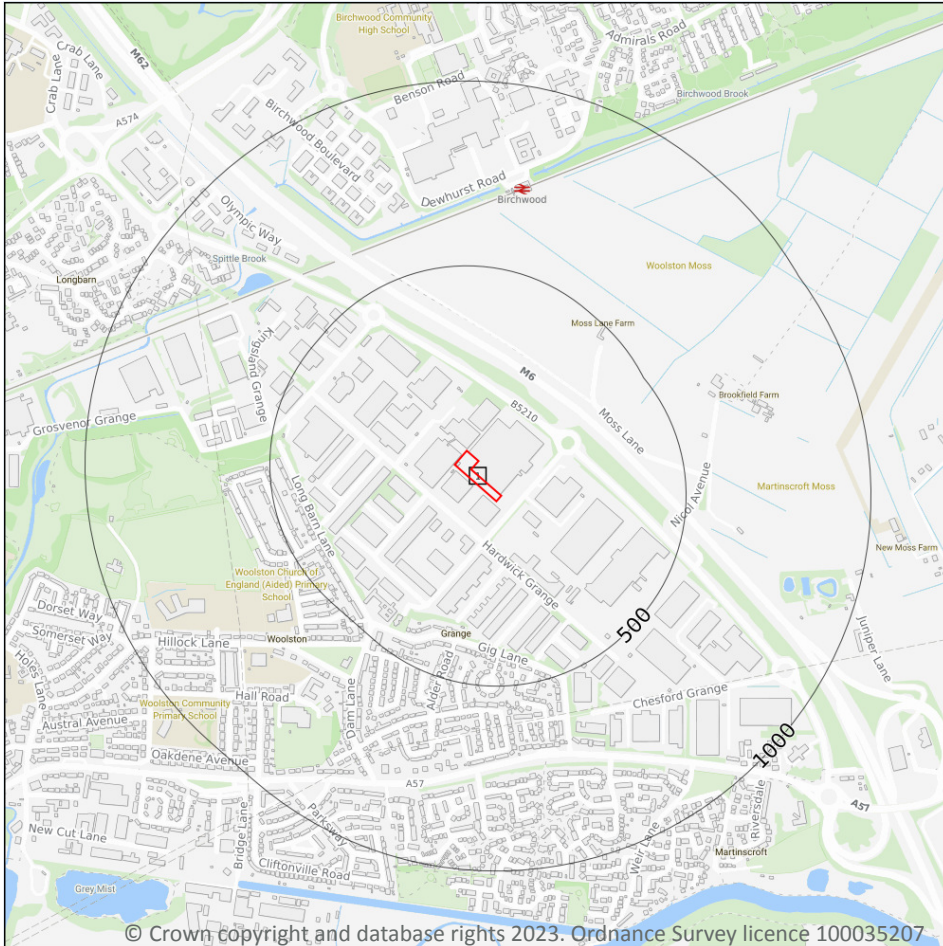
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 84](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW097_runcorn_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

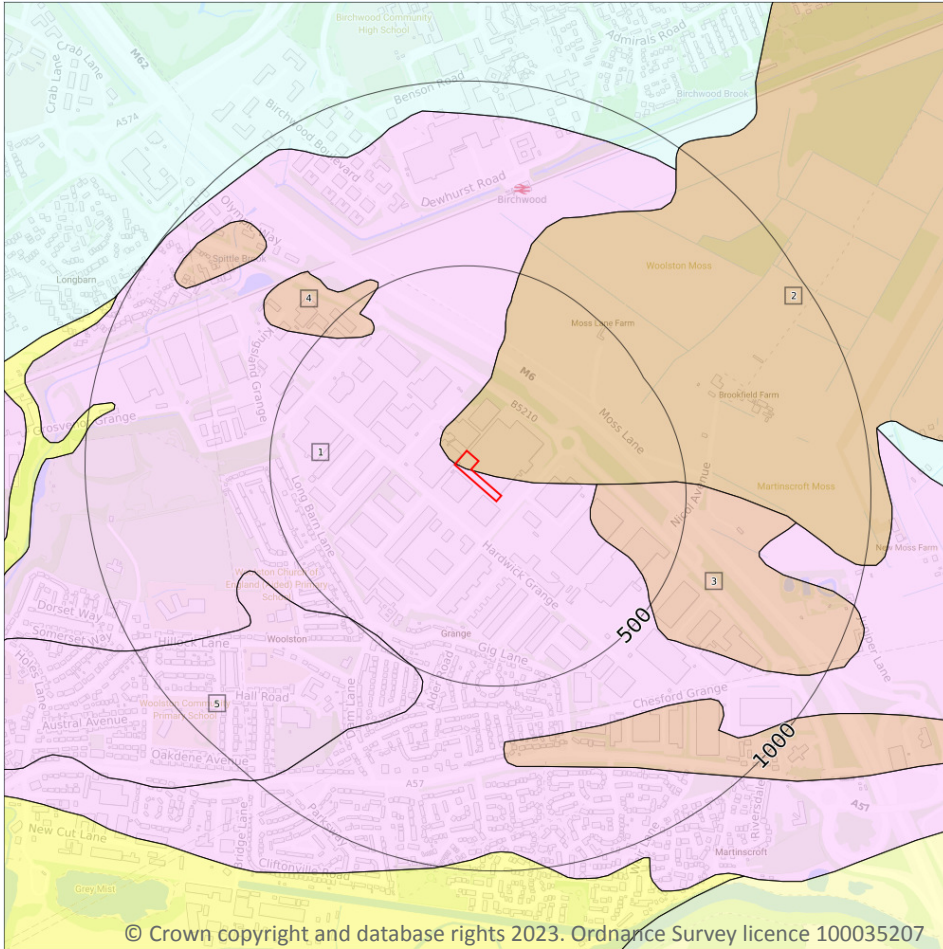
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

5

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 86](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVANSIAN	SAND AND GRAVEL
2	On site	PEAT-P	PEAT	PEAT
3	243m E	SSA-S	SHIRDLEY HILL SAND FORMATION	SAND
4	407m NW	SSA-S	SHIRDLEY HILL SAND FORMATION	SAND



ID	Location	LEX Code	Description	Rock description
5	486m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	6
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
28m W	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
----------------------------	----------

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

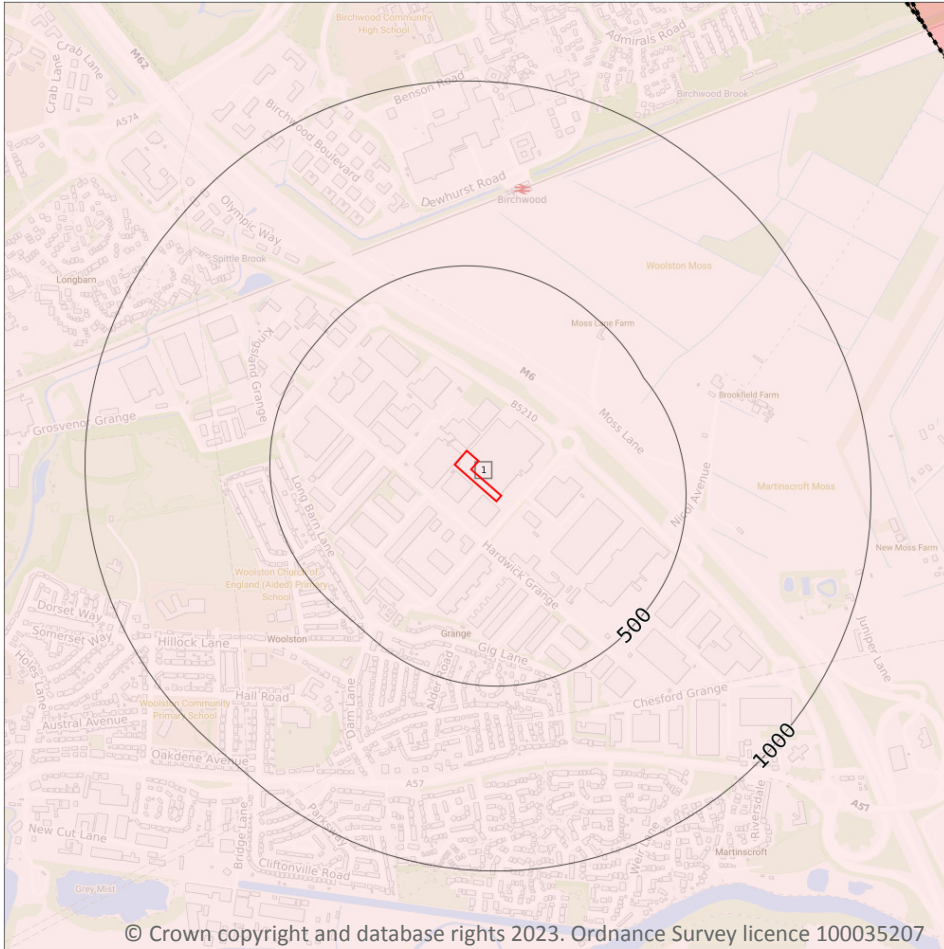
Records within 50m	0
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 88](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

4

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
28m W	Intergranular	High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

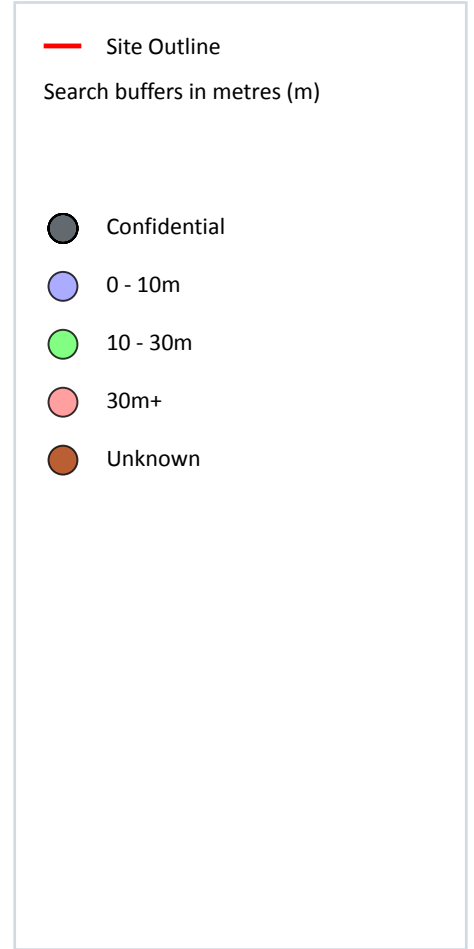
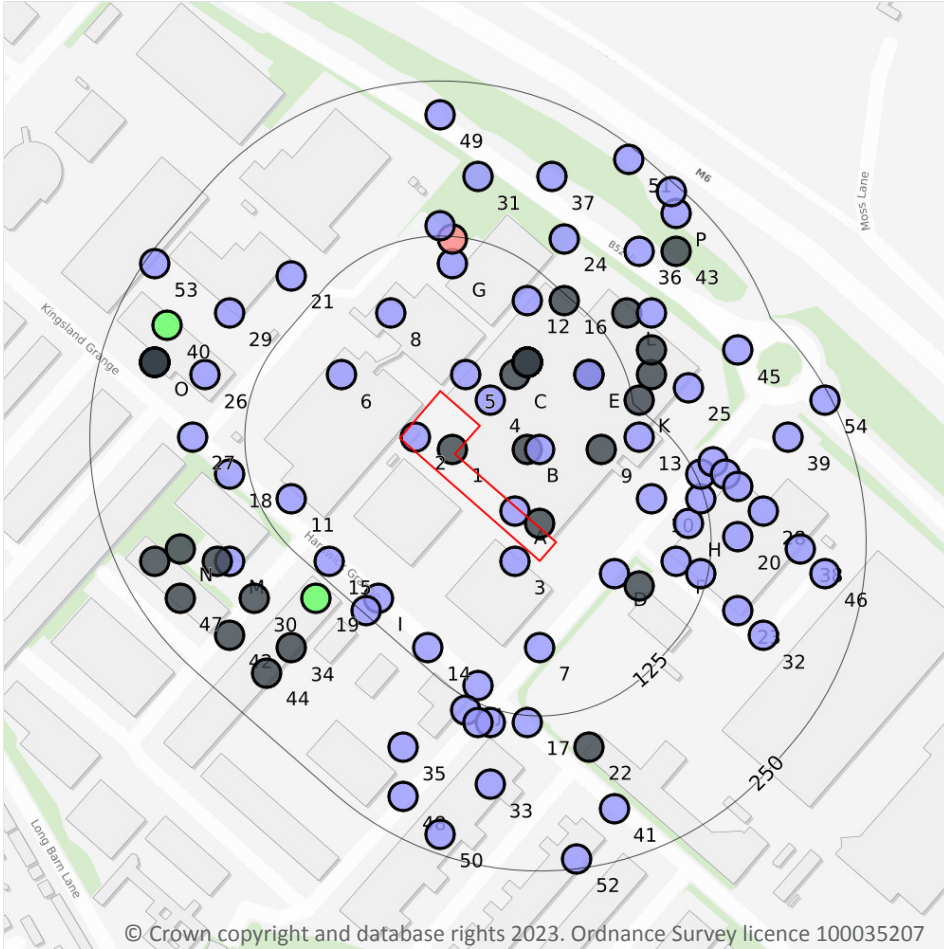
0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

126

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep. Features are displayed on the Boreholes map on [page 90](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	365040 390030	IE 2201B GRANGE 8830	-	Y	N/A
2	On site	365010 390040	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1327	3.0	N	17331698 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	365090 389980	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1328	8.0	N	<u>17331697</u> ↗
A	2m SE	365110 389970	IE 2201B GRANGE 8825	-	Y	N/A
3	13m SE	365090 389940	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN HA5548	0.8	N	<u>17334997</u> ↗
4	21m N	365070 390070	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN HA5547	0.5	N	<u>17334996</u> ↗
5	23m N	365050 390090	WARRINGTON NEW TOWN DEVELOPMENT. 1323	4.5	N	<u>895502</u> ↗
B	41m E	365100 390030	IE 2201B GRANGE TP 8831	-	Y	N/A
B	48m E	365110 390030	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1324	3.0	N	<u>17331694</u> ↗
C	49m NE	365090 390090	IE 2201B GRANGE 8829	-	Y	N/A
D	53m SE	365170 389930	GRANGE EMPLOYMENT AREA 434	5.5	N	<u>17330339</u> ↗
C	64m NE	365100 390100	GRANGE 35 TP6041	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6046	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6050	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6311	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6312	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6316	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 6040	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6044A	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6047A	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6051	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6308	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6044	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6042	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6048	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6314	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6305	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6307	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
C	64m NE	365100 390100	GRANGE 35 BH6309	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6310	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6313	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6043	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6045	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6047	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6049	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 BH6306	-	Y	N/A
C	64m NE	365100 390100	GRANGE 35 TP6315	-	Y	N/A
6	69m NW	364950 390090	WARRINGTON NEWTOWN DEVELOPMENT. 1326	5.5	N	943985 ↗
7	70m S	365110 389870	GRANGE 8 1653	5.25	N	17500432 ↗
8	75m NW	364990 390140	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1322	3.0	N	17331695 ↗
D	76m SE	365190 389920	WARRINGTON NEW TOWN DEVELOPMENT. 331	-	Y	N/A
9	81m E	365160 390030	IE 2201B GRANGE 8826	-	Y	N/A
10	84m E	365200 389990	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1325	3.0	N	17331696 ↗
E	97m NE	365150 390090	IE 2201B GRANGE TP 8832	-	Y	N/A
E	97m NE	365150 390090	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1321	3.0	N	17331693 ↗
F	98m SE	365220 389940	GRANGE PARK WARRINGTON 5	7.5	N	15628412 ↗
11	100m W	364910 389990	GRANGE EMPLOYMENT AREA 411	7.7	N	17330371 ↗
12	101m N	365100 390150	WARRINGTON NEW TOWN DEVELOPMENT. 1320	3.0	N	895501 ↗
G	104m N	365040 390180	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN HA5546	0.6	N	17334995 ↗
13	108m E	365190 390040	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN TP5514	1.5	N	17334979 ↗
H	108m E	365230 389970	GRANGE PARK WARRINGTON TP 6	2.0	N	15628418 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
I	109m SW	364980 389910	GRANGE EMPLOYMENT AREA 412	6.5	N	17330375 ↗
J	112m S	365060 389840	GRANGE EMPLOYMENT AREA 413	7.0	N	17330376 ↗
14	112m S	365020 389870	GRANGE 8 1652	3.45	N	17500431 ↗
15	112m SW	364940 389940	GRANGE 8 1651	3.0	N	17500428 ↗
F	119m SE	365240 389930	GRANGE PARK WARRINGTON TP 2	2.4	N	15628415 ↗
16	121m NE	365130 390150	IE 2201B GRANGE 8828	-	Y	N/A
H	122m E	365240 389990	GRANGE PARK WARRINGTON TP 7	1.1	N	15628419 ↗
I	123m SW	364970 389900	GRANGE DRAINAGE SCHEME WARRINGTON NEW TOWN BH8	3.0	N	17328788 ↗
G	123m N	365040 390200	M H E LOGISTICS, HARDWICK GRANGE	55.0	N	15630709 ↗
H	129m E	365240 390010	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 433	5.5	N	17331699 ↗
K	130m E	365190 390070	IE 2201B GRANGE TP 8832C	-	Y	N/A
17	131m S	365100 389810	GRANGE 8 1658	3.45	N	17500435 ↗
G	133m N	365030 390210	WARRINGTON NEW TOWN DEVELOPMENT. 1319	6.0	N	895500 ↗
J	134m S	365050 389820	PROPOSED DRAINAGE ALONG ROAD NO.4 AT GRANGE 8 SITE DEVELOPMENT WARRINGTON 2061	3.0	N	17332614 ↗
J	136m S	365070 389810	GRANGE DRAINAGE SCHEME WARRINGTON NEW TOWN TP7	3.0	N	17328786 ↗
J	139m S	365060 389810	GRANGE 8 1654	5.0	N	17500433 ↗
18	140m W	364860 390010	GRANGE 8 1650	3.0	N	17500427 ↗
19	141m SW	364930 389910	WARRINGTON NEWTOWN DEVELOPMENT 328	13.72	N	887811 ↗
H	142m E	365250 390020	GRANGE EMPLOYMENT AREA 433	5.5	N	17330342 ↗
K	144m NE	365200 390090	IE 2201B GRANGE 8827	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
20	147m E	365270 389960	GRANGE PARK WARRINGTON TP 8	1.3	N	15628420 ↗
H	147m E	365260 390010	GRANGE PARK WARRINGTON TP 5	1.0	N	15628406 ↗
L	149m NE	365180 390140	IE 2201B GRANGE TP 8832A	-	Y	N/A
K	151m NE	365200 390110	IE 2201B GRANGE TP 8832B	-	Y	N/A
21	152m NW	364910 390170	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN TP5512	1.1	N	17334953 ↗
H	153m E	365270 390000	GRANGE PARK WARRINGTON 3	7.5	N	15628405 ↗
22	155m SE	365150 389790	WARRINGTON NEW TOWN DEVEOPMENT. 414	-	Y	N/A
23	157m SE	365270 389900	GRANGE PARK WARRINGTON TP 1	2.0	N	15628414 ↗
24	159m N	365130 390200	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1317	3.0	N	17331691 ↗
25	164m E	365230 390080	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN HA5545	0.7	N	17334994 ↗
26	165m W	364840 390090	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN TP5513	1.4	N	17334954 ↗
L	165m NE	365200 390140	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1318	3.0	N	17331692 ↗
27	167m W	364830 390040	GRANGE EMPLOYMENT AREA 410	7.0	N	17330368 ↗
28	169m E	365290 389980	GRANGE PARK WARRINGTON TP 4	2.7	N	15628417 ↗
M	169m W	364860 389940	GRANGE DRAINAGE SCHEME WARRINGTON NEW TOWN 8A	4.1	N	17328790 ↗
29	170m NW	364860 390140	GRANGE EMPLOYMENT AREA WARRINGTON NEW TOWN TP5511	1.2	N	17334952 ↗
30	174m SW	364880 389910	GRANGE 30 WARRINGTON 5697	-	Y	N/A
31	176m N	365060 390250	GRANGE 3 LORRY PARK WARRINGTON NEW TOWN 1316	3.0	N	17331690 ↗
M	178m W	364850 389940	GRANGE 30 WARRINGTON 5691	-	Y	N/A
32	183m SE	365290 389880	GRANGE PARK WARRINGTON 6	7.5	N	15628413 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
33	185m S	365070 389760	PROPOSED UNIT FACTORIES AT GRANGE 13 WARRINGTON 2095/5A	4.0	N	17332782 ↗
34	185m SW	364910 389870	GRANGE 30 WARRINGTON 5704	-	Y	N/A
35	186m S	365000 389790	GRANGE EMPLOYMENT AREA 435	5.5	N	17330341 ↗
36	191m NE	365190 390190	DISTRICT DISTRIBUTOR ROAD GRANGE EMPLOYMENT AREA 494	5.0	N	17328608 ↗
37	195m N	365120 390250	GRD 1 WARRINGTON NEW TOWN 844	5.0	N	17328394 ↗
38	197m E	365320 389950	GRANGE PARK WARRINGTON TP 3	2.7	N	15628416 ↗
N	198m W	364820 389950	GRANGE 30 WARRINGTON 5685	-	Y	N/A
39	205m E	365310 390040	GRANGE PARK WARRINGTON 1	7.5	N	15628403 ↗
O	207m W	364800 390100	GRANGE 18 3510	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 3511	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 TP 3517	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 3508	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 3507	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 3513	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 TP 3516	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 3509	-	Y	N/A
O	207m W	364800 390100	GRANGE 18 TP 3518	-	Y	N/A
40	208m NW	364810 390130	WARRINGTON NEWTOWN DEVELOPMENT. 326	14.94	N	943853 ↗
41	209m SE	365170 389740	GRANGE 8 1659	5.0	N	17500436 ↗
42	210m SW	364860 389880	GRANGE 30 WARRINGTON TP 5698	-	Y	N/A
43	212m NE	365220 390190	IE 2201B GRANGE TP 8832D	-	Y	N/A
44	213m SW	364890 389850	GRANGE 30 WARRINGTON 5703	-	Y	N/A
45	213m NE	365270 390110	WARRINGTON NEW TOWN DEVELOPMENT. 495	5.0	N	895498 ↗
46	218m E	365340 389930	GRANGE PARK WARRINGTON 4	7.0	N	15628411 ↗

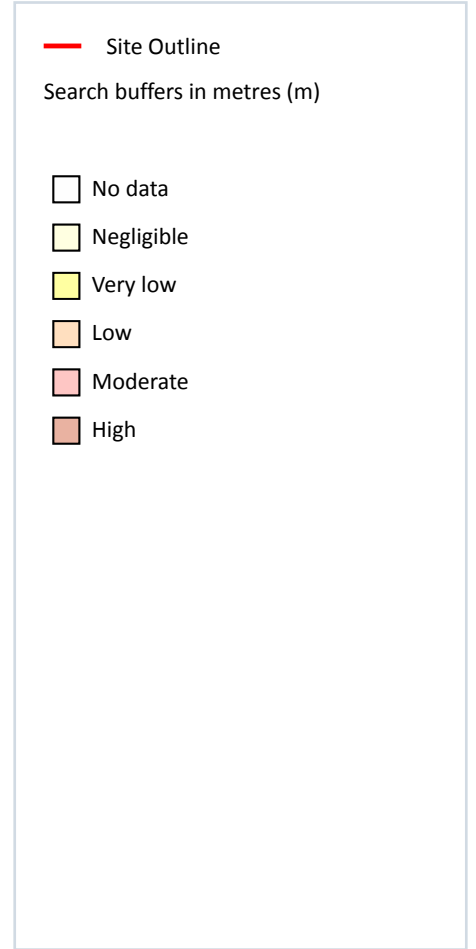


ID	Location	Grid reference	Name	Length	Confidential	Web link
47	219m SW	364820 389910	GRANGE 30 WARRINGTON 5692	-	Y	N/A
48	220m S	365000 389750	GRANGE 8 1655	5.0	N	17500434 ↗
N	221m W	364800 389940	GRANGE 30 WARRINGTON 5686	-	Y	N/A
49	223m N	365030 390300	WARRINGTON NEW TOWN DEVELOPMENT. 492	5.0	N	895497 ↗
P	233m NE	365220 390220	WARRINGTON NEW TOWN DEVELOPMENT. 329	6.55	N	895495 ↗
50	234m S	365030 389720	PROPOSED UNIT FACTORIES AT GRANGE 13 WARRINGTON 2096/6A	4.0	N	17332783 ↗
51	241m NE	365182 390264	M6 WIDENING JCT 20/21A G10	5.51	N	895514 ↗
52	242m S	365140 389700	PROPOSED UNIT FACTORIES AT GRANGE 13 WARRINGTON 2091	4.0	N	17332778 ↗
53	243m NW	364800 390180	GRANGE 24 (SITE 2) ADJACENT TO IE99 WARRINGTON NEW TOWN TP5482	1.5	N	17333464 ↗
P	244m NE	365216 390238	M6 WIDENING JCT 20/21A R72	3.0	N	895519 ↗
54	245m E	365340 390070	DISTRICT DISTRIBUTOR ROAD GRANGE EMPLOYMENT AREA 496	5.0	N	17328609 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

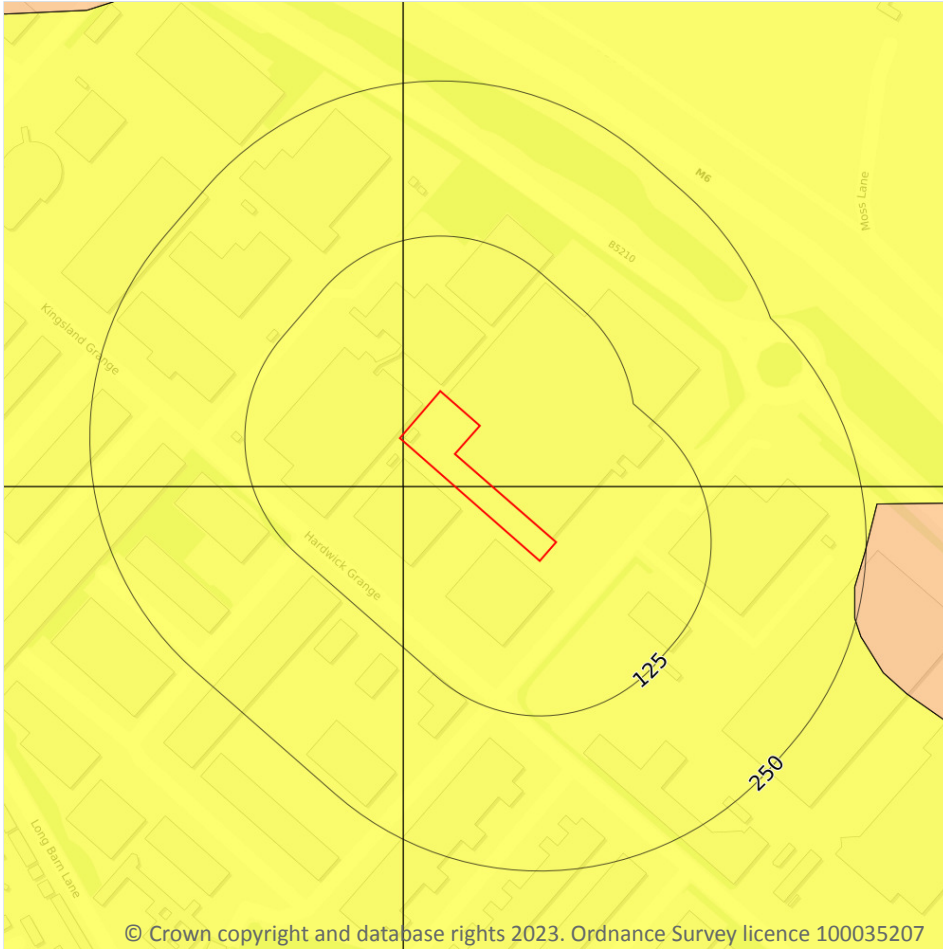
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 97 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
28m W	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 98](#) >

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

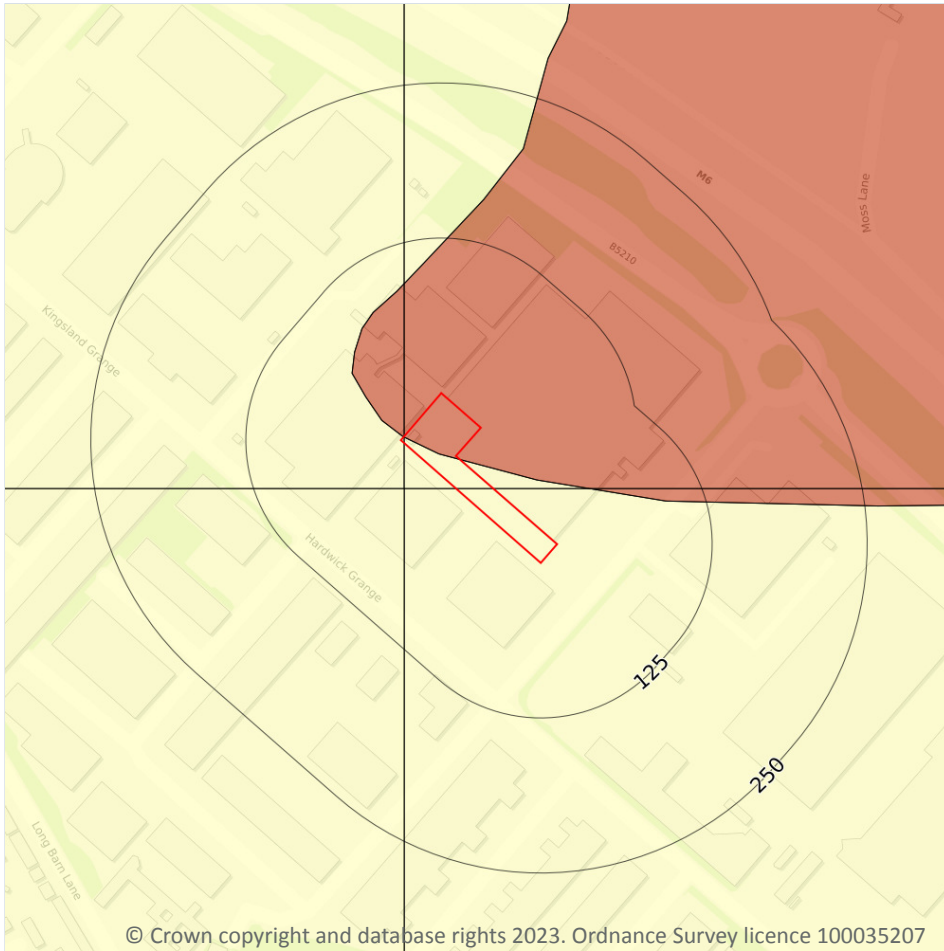


Location	Hazard rating	Details
28m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m

3

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 100](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

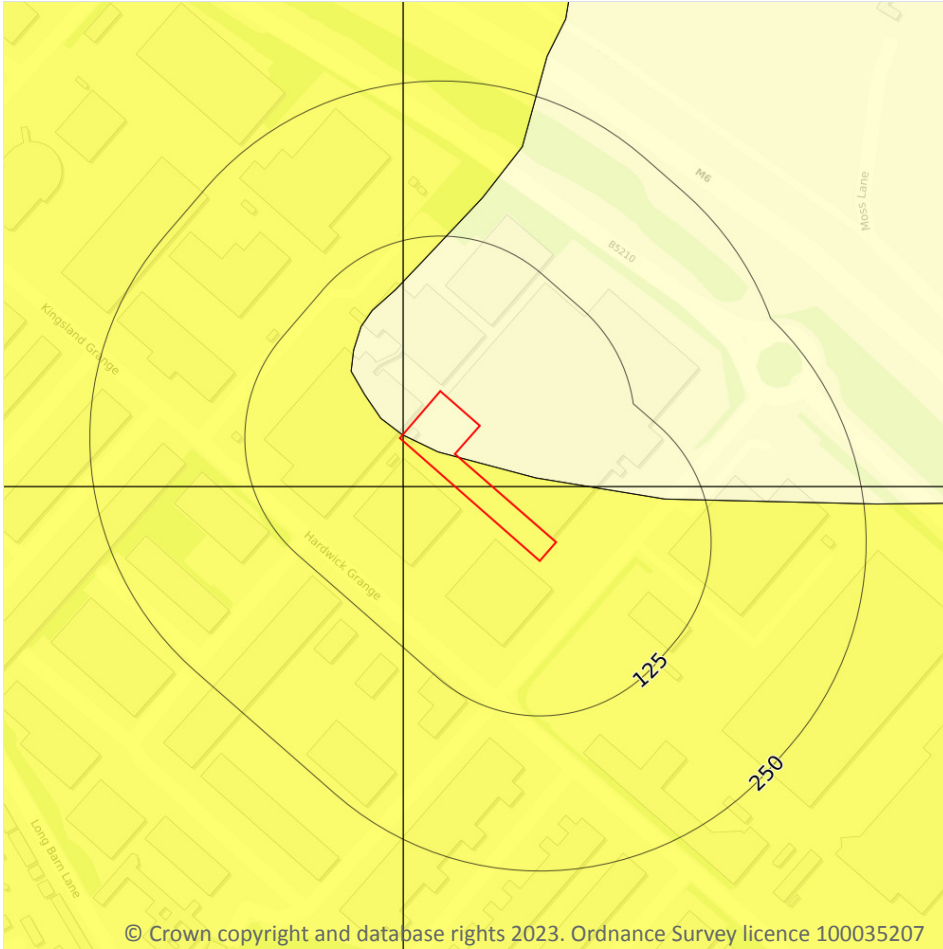


Location	Hazard rating	Details
28m W	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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17.4 Collapsible deposits

Records within 50m

3

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 102 >](#)

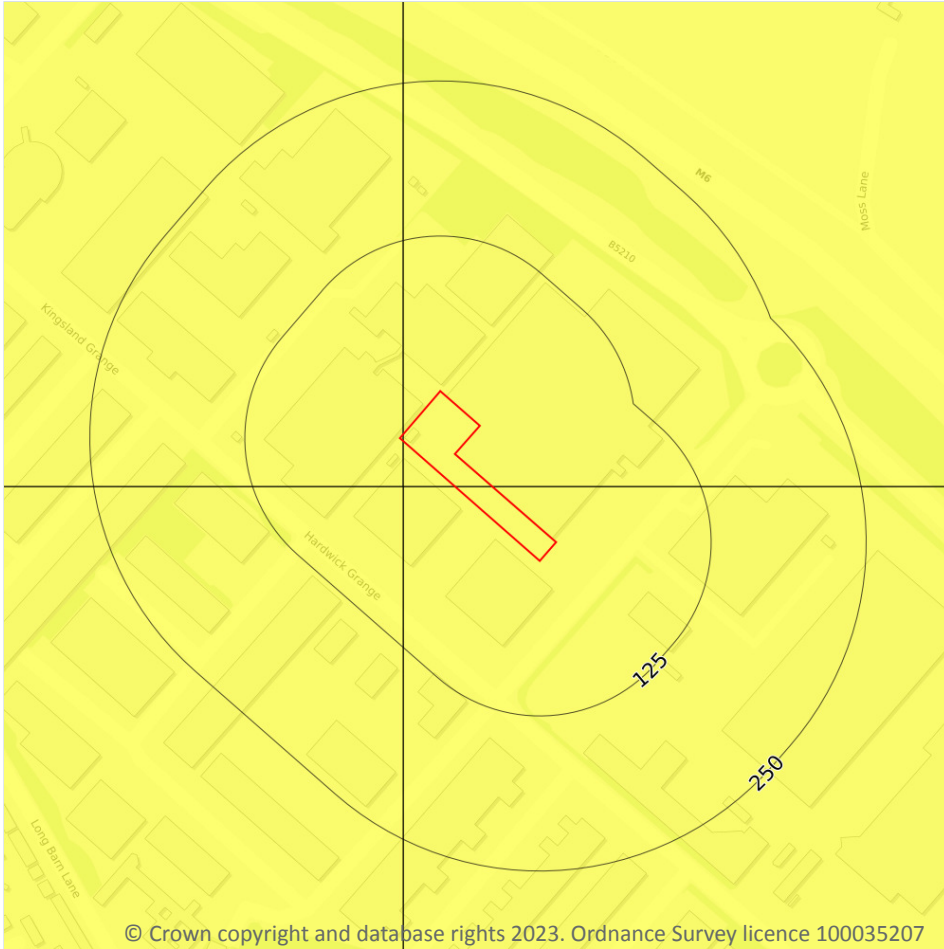
Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
28m W	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m

2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 104 >](#)

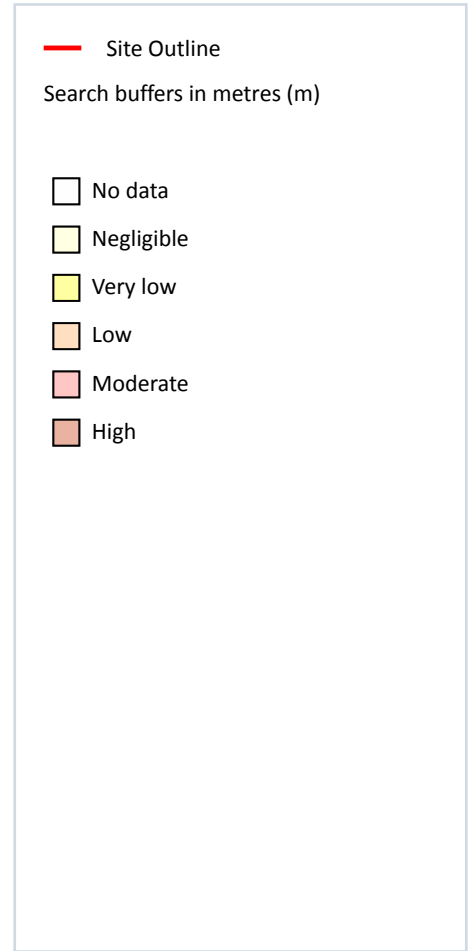
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.



Location	Hazard rating	Details
28m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

2

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 106 >](#)

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
28m W	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

0

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

Areas which could be affected by past, current or future coal mining.



Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

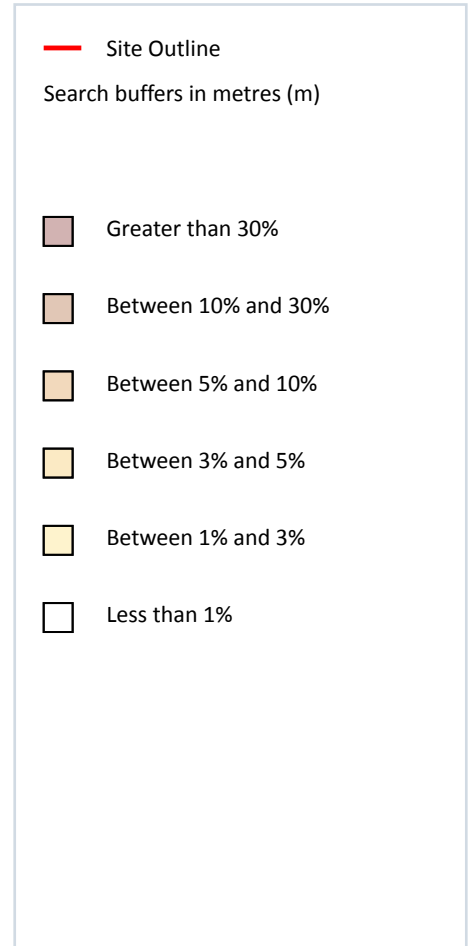
Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Radon



19.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 111 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

9

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m 0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m 0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m 0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m 0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m 0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

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